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Farm Business Management Data and Practices in South Dakota: 1956 Annual Report

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May, 1958

FARM BUSINESS MANAGEMENT DATA AND PRACTICES
IN SOUTH DAKOTA

1956 Annual Report

by

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INTRODUCTION

This project, "Farm Business Management Data and Practices", was set up to begin in 1955, with farmers and ranchers in the seven "types-of-farming areas" in South Dakota keeping records on receipts, expenses, inventories, and other items and having their books analyzed by the Agricultural Experiment Station Economics Department at the end of the year. Only a few participated the first year, but in 1956 a total of 57 cooperators turned in record books for analysis.

The purpose of this project is to obtain data on costs, returns, and organization on farms and ranches of various types in the different types-of-farming areas of the state, for use by the Experiment Station, the Extension Service, and the College proper, in farm planning, budgeting, and teaching. At the same time, it provides information to the cooperators as to the efficiency of their operations and how they compare with the other participants. The analysis of a farm or ranch business helps to locate "weak spots" and opportunities for improving efficiency and income. The data from the records and analysis can also be used by other farmers and ranchers for purposes of comparison with their own.

Unlike many farm record routes, this project involves no fees to be paid by the cooperator. All costs of record books, visits, and analysis are borne by the Station. Cooperators are visited two or three times a year by the project leader or his representative.

Records kept include farm inventories, cash receipts and expenses, feed consumed by the various classes of livestock, family living secured from the farm, livestock births, deaths, and transfers, and crops produced.

This project represents the first attempt to obtain farm record information from all of the areas of the state. From 1943 to 1952, projects were carried on in the North Central and Southeastern areas, but no work was done in the rest of the state. Feed records were also included for the first time, in an attempt to obtain information as to returns from and profitability of the different livestock enterprises.

The results for each farm and ranch are given in the following tables, as well as averages by areas and type of farms. This has been done in order to show up the various factors affecting incomes on the individual holdings, which are easily hidden when averages alone are used. While averages for all 57 farms and ranches have been computed, many of the averages for areas and types are more meaningful, since there is a great deal of variation due to difference in climate and type of operations.

The 57 farms and ranches were classified according to type as follows:

A. Cash grain farms (12) --- 50% or more of cash receipts from crops (including Soil Bank and crop insurance receipts).

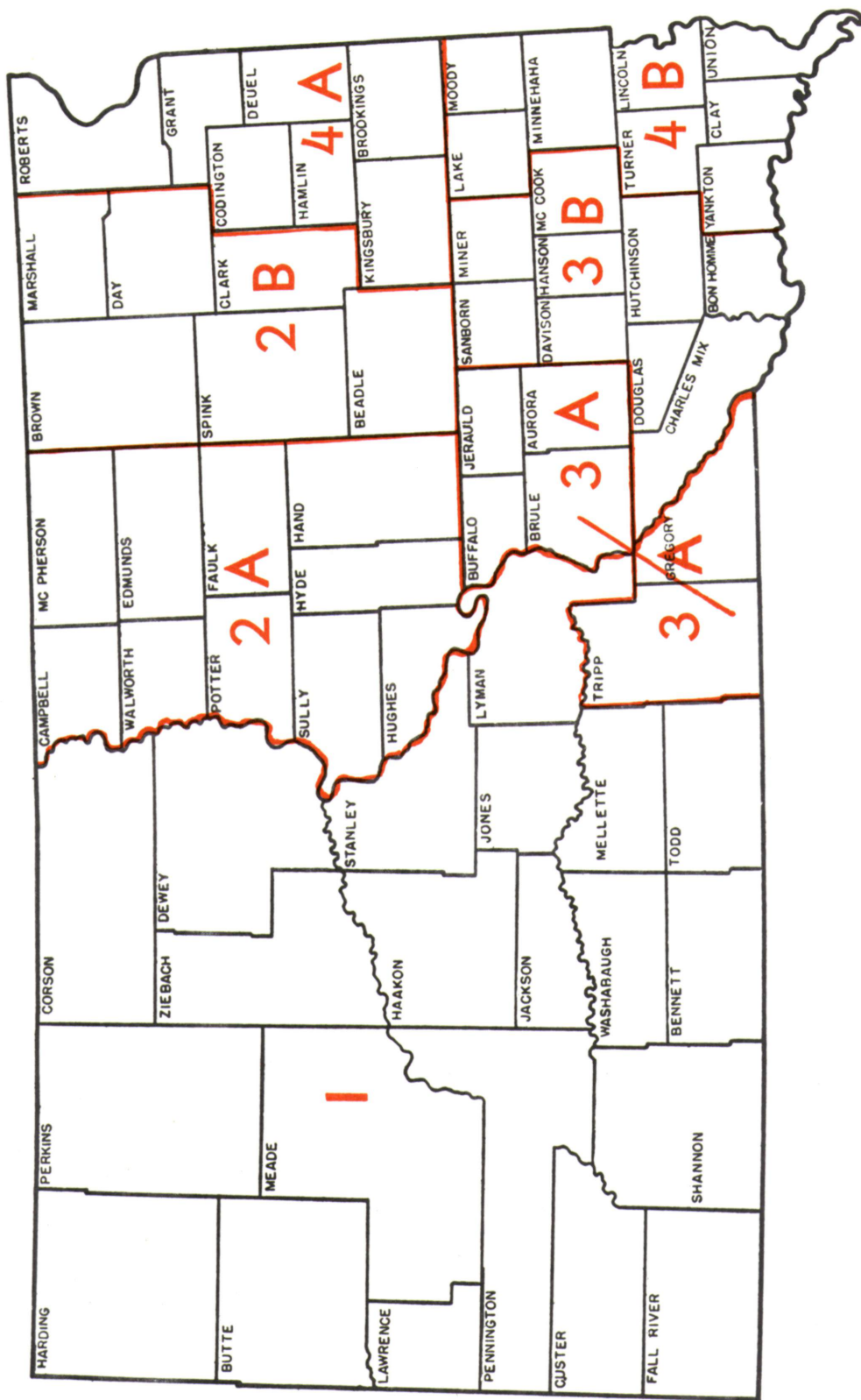
B. Dairy farms (3) --- 30% or more of cash receipts from dairy products; 50% or more of all cows milk cows; and 50% or more of cash receipts from dairy products and cattle.

C. Western cattle ranches (4) --- 50% or more of cash receipts from Beef cattle; less than 10% of total acreage in grain and tame hay.

D. Livestock farms (30) --- 50% or more of cash receipts from cattle, hogs, sheep, and wool; farm did not qualify as a dairy farm or cattle ranch.

E. General farms (8) --- Did not qualify in the other categories. Mixtures of crops, livestock, and dairy or poultry.

In addition, the holdings were classified according to type-of-farming



TYPES OF FARMING AREAS IN SOUTH DAKOTA

(3)

area. The seven areas, as shown on the map of the state, were represented as follow:

<u>No. of area</u>	<u>Name of area</u>	<u>No. in project</u>
1	Range	7
1A	North Central	10
1B	North James	13
3A	South Central	4
3B	South James	4
4A	Northeastern	6
4B	Southeastern	13
		<u>57</u>

Landlords or partners provided some capital and received part of the income in 47 of the 57 cases included in this report. In order to make all of the units comparable, therefore, the figures used are for the whole farm business, with all receipts, expenses, and inventories for landlords as well as operators included.

FARM INVENTORIES

The average capital investment per farm varied from \$26,490. to \$415,023. with an average of \$71,474. and a breakdown as follows;

	Low	Average	High
A. Cash grain farms	\$26,592.	\$53,152.	\$99,665.
B. Dairy farms	26,490.	33,430.	42,194.
C. Cattle ranches	77,155.	283,394.	415,023.
D. Livestock farms	29,339.	63,312.	138,093.
E. General farms	32,359.	60,370.	102,660.

Table I shows the inventories, classified, arranged, and averaged by area and by type of farms.

FARM EARNINGS

Operator Labor Earnings is a measure of the financial success of a farm or ranch. It represents the amount which the operator has left for his labor and management after paying all expenses, allowing for depreciation and inventory changes, and making charges for unpaid family labor and for interest at five percent on the average capital investment. On the "whole-farm basis" this represents the amount which would be left for an owner-operator. On a rented

Table 1. Summary of Farm and Ranch Inventories, 1956

Farm No.	Ave of 57 farms	Ave high	Ave low	Ave of 15 low	Ave of 15 high	Ave of 12 A	Ave of 3 B	Ave of 4 C	Ave of 8 D	ave of E	26 D	24 C	23 C	22 C	27 C	av of 4 C	25 B	21 A
Type of farm																		
Size of farm (acres)	1551	897	2501	751	592	12904	702	620	2320	19120	4896	4896	4896	4896	22800	12904	880	1819
Acres owned by operators**	932	447	1712	417	400	7572	451	416	1360	8700	3806	3806	3806	3806	15384	7572	880	1616
Acres rented	619	450	789	334	192	5352	251	214	960	10420	1090	1090	1090	1090	7496	5352	0	203
Size of Business (work units)***574		653	660	400	497	1146	579	558	1009	1697	702	702	702	702	1765	1146	316	577
INVENTORY JANUARY 1																		
Dairy and dual purpose cattle	973	1792	541	457	5206	291	476	2361	116	250	300	300	300	270	345	292	4390	540
Beef cattle (incl. feeders)	171	4011	17757	3865	80	54972	10001	3580	24016	52550	18365	18365	18365	15905	133069	54972		7914
Hogs	952	687	756	550	153		964	453	320									
Sheep	772	1548	740	240	127		1153	720										
Poultry	199	221	270	127	7		201	461										
Total Productive Livestk.	13067	8260	20056	5239	5446	55286	12795	7574	24749	52828	18678	16225	133414	55286	23	23	20	60
Horses	171	52	452	12	50	652	211	62										8514
Feed, grain and seeds	5647	4410	7834	6748	1482	13460	4847	4642	5935	31114	6357	3384	12986	13460	384	150		11014
Power machinery	2602	2418	3974	2427	1092	4088	2585	2753	5008	3460	5036	5036	5036	4088	380	7567		5280
Crop and general machinery	3860	3928	4594	3858	2748	4723	3875	3791	5898	8023	4814	4814	4814	4723	683	5280		5280
Livestock equipment	390	591	368	170	1197	313	393	441	1916	80								
Auto (farm share)	986	840	1301	1406	425	859	977	662	2284	864	1675	1675	1675	859	525	1538		1538
Farm improvements	6695	6550	7763	5219	8105	10862	6123	8443	9946	2998	6031	8263	26154	10862	12060	14794		14794
Land	37309	30923	49557	28871	12483	135622	31445	32108	41760	212200	22766	74520	233000	135622	12100	28406		28406
Total Farm Capital	70726	57971	95847	53952	33038	225866	63253	60477	97496	312391	65622	108178	417271	225866	31314	77695		77695
INVENTORY DECEMBER 31																		
Dairy and dual purpose cattle	1109	1883	849	430	5862	192	560	2860	116	250	100	100	100	135	285	193	4875	540
Beef cattle (incl. feeders)	9969	4178	17220	4236	82	54350	9675	3202	22639	52290	21550	21550	21550	14105	129454	54350		10417
Hogs	1068	1105	763	693			912	1151	128									
Sheep	1023	2691	795	307	210		1601	730										
Poultry	189	143	283	129	7		216	327	424	105	4	24	24	24	169	33	20	60
Total productive Livestk.	13358	10001	19910	5786	6160	54576	12964	8269	23306	52645	21654	14264	129739	54576	4895	11017		11017
Horses	182	58	485	3	33	726	226	67										
Feed, grains and seeds	5534	4972	5745	5382	2211	13772	5217	4074	5494	32448	5275	4461	12904	13772	1800	4987		4987
Power machinery	2405	2337	3526	1925	1451	4394	2291	2918	4277	2720	6199	1932	6726	4394	270	5991		5991
Crop and general machinery	3625	4309	5050	3997	2158	4182	3621	3352	4774	6700	4241	1536	4170	4182	507	4978		4978
Livestock equipment	415	723	369	193	1007	288	377	733	1602	60	47	897	169	288	570	471		471
Auto (farm share)	872	747	1138	1308	568	853	759	766	1999	1680	1256	224	250	853	425	1170		1170
Farm improvements	6394	6104	7144	4878	7751	11685	5737	7977	8977	9846	5517	6909	24467	11685	11652	13113		13113
Land	39437	30923	51024	28871	12483	160447	32178	32108	41760	290200	44068	74520	233000	160447	12100	28405		28405
Total Farm Capital	72221	60171	93391	52353	33822	250922	63371	60263	92190	397230	88688	105023	415023	250922	31899	70132		70132
Average Investment	71474	59071	94619	53152	33430	238394	6312	60370	94843	354797	77155	106600	415023	238394	31607	73914		73914

* Operator's Labor earnings

** Infamily partnerships, all partners were considered operators; other absentee partners were considered landlords.

*** For an explanation of work units, see page 24.

Table 1. Summary of Farm and Ranch Inventories, 1956

Farm No. Area No. Type of farm	Ave. of 31		33		38		Ave. of 32		34		35		36		37		39		40		Ave. of 10/2A			
	7/1		2A		2A		2A		2A		2A		2A		2A		2A		2A		7/2A			
	All	E	A	A	A	A	D	D	D	D	D	D	D	D	D	D	D	D	D	D	All			
Size of farm (acres)	3091	2080	1200	900	1050	774	1360	3506	1091	1200	2000	2164	1853	1716										
Acres owned by operators	4867	1520	640	320	400	640	640	2376	1091	1240	2400	1840	1544	1330										
Acres rented	3224	560	560	530	570	134	720	630	0	40	320	324	309	386										
Size of business (work units)	927	1139	541	453	497	540	484	1534	552	615	1262	911	942	804										
INVENTORY JANUARY 1																								
Dairy and dual purpose cattle	\$ 807	\$ 1300	\$ 4900	\$ 270	\$ 135	\$ 6527	\$ 1440	\$ 100	\$ 250	\$ 500	\$ 360	\$ 1080	\$ 533	\$ 530										
Beef cattle (incl. feeders)	33769	10620	4900	1153	6527	6525	1670	36110	1057	10700	25335	20392	14855	12766										
Hogs	2205	162	25	1430	753	575	60	24	7718	826	250	605	331	393										
Sheep	46			1567	794	2500	6300	24	7718	826	250	605	331	393										
Poultry	57	82	270	26	143	9599	50	25	40	165	200	200	2363	1813										
Total Productive Livestock	36974	12164	5195	11516	8356	9599	9720	36259	9065	12191	25945	22277	18151	15593										
Horses	394			40	20		200	200	60	100	200	200	109	86										
Feed, grains, and seeds	10168	3249	10779	7526	9153	5930	6340	4790	1537	3273	7010	3012	5305	5925										
Power machinery	4187	4783	1673	2993	2333	3970	475	3176	1345	2257	12682	3968	3982	3732										
Crop and general machinery	4393	3765	5113	6313	5713	3033	2569	4028	1107	3253	8761	2926	3794	4175										
Livestock equipment	624	457	20	23	22	150				124	350	619	177	174										
Auto (farm share)	1121		1954	2563	2258	1250	900	936	096	2276	560	379	1029	1172										
Farm improvements	11464	9509	5831	1409	3660	10390	2128	4300	7220	5339	13594	9276	7464	6903										
Land	9250	50772	16969	20031	18499	24030	24900	85104	22779	35461	26680	32460	35916	33919										
Total Farm Capital	153566	34700	47533	52494	50014	58362	47232	141593	44039	64272	96382	80116	76007	71673										
INVENTORY DECEMBER 31																								
Dairy and dual purpose cattle	\$ 900	\$ 1463	\$ 5255	\$ 270	\$ 135	\$ 5722	\$ 2065	\$ 100	\$ 700	\$ 375	\$ 510	\$ 945	\$ 671	\$ 643										
Beef cattle (incl. feeders)	33475	10012	5255	5909	5622	5722	70	30130	1102	6115	30644	19790	13358	11476										
Hogs	2804	835	200	1209	705	1400	70	46	2433	1192	1249	1390	757	755										
Sheep	13			2200	1100	6730	6045	110	30	166	230	230	2187	1751										
Poultry	91	134	254	26	139	7702	8215	30383	4265	7850	32403	22355	82	104										
Total Productive Livestock	36739	12493	5709	9695	7702	13902	8215	30383	4265	7850	32403	22355	17054	14727										
Horses	429			40	20		200	200	60	100	200	200	109	80										
Feed, grains and seeds	9564	5392	13368	7746	10556	7362	5556	7802	939	3675	10594	7514	6234	7015										
Power machinery	4017	4546	624	2339	1482	3531	260	2596	1076	1432	10227	3330	3207	2996										
Crop and general machinery	3855	2844	4169	6859	5514	5149	1979	4365	384	2283	10063	2505	3889	4110										
Livestock equipment	592	293	10		5	399	101			82	535	691	253	212										
Auto (farm share)	1001	912	2502	2278	2340	1103	675	648	672	1945	420	109	907	1124										
Farm improvements	11487	10021	5393	1325	3361	9435	1742	3409	6784	4678	12756	8357	6749	6398										
Land	103436	50772	16969	20031	18499	24030	24900	85104	22779	35461	40680	32460	39059	36119										
Total Farm Capital	171130	37279	48640	50313	49481	64911	43628	134592	37450	57707	125677	77602	77367	72782										
Average Investment	164040	85990	48090	51404	49747	61637	45430	138093	40773	69089	111029	78859	76687	72229										

Table 1. Summary of Farm and Ranch Inventories, 1956

Farm No. Area No. Type of farm	7		8		9		10		11		12		13		Ave. of 13
	2B	D	2B	D	2B	D	2B	D	2B	D	2B	D	2B	D	
Size of farm (acres)	1400	700	700	320	1240	660	960	780	760	758	518	960	770	865	
Acres owned by operators	320	615	480	320	720		960	320	760	422	400	0	616	308	
Acres rented	1080	85	220	0	520	640	460			334	118	960	154	557	
Size of business (work units)	797	672	646	190	617	320	735	435	629	626	432	494	400	447	
INVENTORY JANUARY 1															
Dairy and dual purpose cattle	\$21702	\$11134	\$11134	\$2670	\$10230	\$1125	\$1695	\$652	\$2050	\$614	\$3285	\$1110	\$100	\$605	
Beef cattle (incl. feeders)	2110	2609	1745	210		7830	10337	3068	17450	10617	560	6350	4550	5450	
Hogs	380					518	2958	232		1154		900	45	473	
Sheep		1015	768	90	129	150	355	202	300	115	137				
Poultry						9623	15627	4154	19850	12797	4019	8360	135	68	
Total Productive Livestock	24192	14758	13647	2960	10359	45			300	38	170		4830	6595	
Horses	6944	8600	6081	2258	9424	3946	6391	1724	3880	5461	1618	1010	3444	2227	
Feed, grains and seeds	303	4372	3195	1899	2670	1264	2292	190	1720	2046	782	2391	1805	2098	
Power machinery	3137	3570	3175	2099	6548	1918	3899	3480	3014	3427	933	1546	6833	4189	
Crop and general machinery		660	359	32		98	53	45	257	167	607	68	447	257	
Livestock equipment	405	1198	247	526	450	1823	1635	1044	290	846	369		1078	539	
Auto (farm share)	6845	3743	1695	9600	7076	8890	12295	3680	7304	6792	4295	8000	7329	7665	
Farm improvements	44000	18800	18800	14400	49600	19800	48000	33540	18696	29515	25900	28200	28581	26390	
Land	36325	55701	47198	33775	86127	47305	90193	47857	55320	61089	38687	49574	54346	51960	
Total Farm Capital															
INVENTORY DECEMBER 31															
Dairy and dual purpose cattle	\$23355	10140	10140	\$2350	11110	\$1050	\$2190	915	\$1800	\$662	\$4110	\$270	\$100	\$185	
Beef cattle (incl. feeders)	970	2700	1770	360		10079	11085	3610	16800	10963	500	7800	5815	6808	
Hogs	589						2250	451	740	922	223	1620	126	873	
Sheep							1015	200		260	82		264	132	
Poultry		938	445	90	132	150	378	200	19340	13067	4915	9690	6305	7997	
Total Productive Livestock	24914	13778	12155	2800	11242	45	16918	5176	300	38	160				
Horses	6182	8053	5251	1952	6055	5453	8481	2501	4190	5346	2019	3056	4423	3739	
Feed, grains and seeds	368	3929	2835	1716	2070	1106	1797	383	1909	1790	474	2341	1470	1905	
Power machinery	2199	3673	3355	1182	4900	1525	3357	2823	2340	2817	776	2844	6136	4490	
Crop and general machinery		535	296	28		72	70	40	132	130	579	60	400	230	
Livestock equipment	203	1027	1	390	300	1458	1089	783	218	608	175		943	472	
Auto (farm share)	6253	3523	1563	9200	6760	8390	11568	3520	7223	6444	4078	7500	7106	7303	
Farm improvements	44000	18800	18800	14400	49600	19800	48000	33540	18696	29515	25900	28200	28581	26390	
Land	84118	53317	44256	31667	80927	49128	91281	48765	54349	59756	39076	53691	55364	54527	
Total Farm Capital															
Average Investment	85221	54509	45727	32721	83527	48216	90737	48311	54835	60423	38882	51633	54855	53244	

Table 1. Summary of Farm and Ranch Inventories, 1956

Farm No. Area No. Type of farm	Ave of 13 51		Ave of 12 52		Ave of 2 Ave of 4 61		Ave of 2 63		Ave of 2 63	
	2B B	3A D	3A D	3A D	3A A	3A A	3B E	3B E	3B D	3B A
Size of farm (acres)	370	726	829	667	748	990	880	935	842	761
Acres owned by operators--	320	396	829	480	654	0	720	360	508	571
Acres rented	50	330	0	187	94	990	160	575	334	190
Size of business (work units)	454	578	482	6--	541	410	465	437	489	900
INVENTORY JANUARY 1										
Dairy and dual purpose cattle	\$4200	\$1094	\$1575	\$	\$ 788	\$	\$ 250	\$ 125	\$ 456	\$ 4555
Beef cattle (incl. feeders)	240	8250	9351	7330	8341	0	5940	2970	5655	5076
Hogs	460	817	1665	1065	833				416	1635
Sheep		126	386		193		60	30	96	
Poultry		219	306	481	394		6250	3125	212	1400
Total Productive Livestock	4900	10559	11618	9476	10547				6836	12666
Horses		40	125	100	113				56	250
Feed, grains and seeds	1218	4341	4544	1676	3110	7670	3890	5780	4445	6284
Power machinery	605	1846	2963	1821	1892	1118	2177	1648	1769	2431
Crop and general machinery	3287	3341	5627	2665	4146	2993	4984	3988	4667	5669
Livestock equipment	657	252	607	591	598				299	1032
Auto (farm share)	350	724	952	419	686	735	1659	1197	941	1027
Farm improvements	2984	6437	4473	3450	3961	1190	2555	1873	2917	20414
Land	12850	27782	27527	21550	24539	44000	13200	28600	26569	48285
Total Farm Capital	26801	55324	58435	40749	49592	57706	34715	46210	47901	98049
INVENTORY DECEMBER 31										
Dairy and dual purpose cattle	\$4270	\$1131	\$1625	\$	\$ 813	\$	\$ 240	\$ 120	\$ 466	\$ 4680
Beef cattle (incl. feeders)	245	8695	5640	7585	6613		5375	2688	4650	7252
Hogs		773	140	1049	594				297	5698
Sheep	630	246	1186		593		24	12	296	
Poultry		206	425	612	518		5639	2819	265	
Total Productive Livestock	5745	11050	9015	9246	9131				5975	17630
Horses		38	125	50	88				44	300
Feed, grains and seeds	2150	4597	2298	4695	3497	1556	8416	4986	4241	8619
Power machinery	400	1600	2315	638	1476	558	1687	1123	1299	4917
Crop and general machinery	2436	2888	4917	2545	3731	6123	4480	5302	4516	6178
Livestock equipment	459	205	536	569	553				276	1227
Auto (farm share)	100	514	816	314	565	551	1452	1002	783	747
Farm improvements	2639	6102	4079	3278	3678	980	2190	1585	2632	19358
Land	12850	27782	27527	21550	24539	44000	13200	28600	26569	48285
Total Farm Capital	26179	54778	51629	42886	47257	53769	37064	45416	46337	107262
Average Investment	26490	55051	55032	41817	48425	55737	35889	45813	47119	102660
										45929
										74295
										105125
										29339

Table 1. Summary of Farm and Ranch Inventories, 1956

Farm No. Area No. Type of farm	Av of 4 73		71		72		75		Av of 4 76		4A		Av of 6 85		88		92		Av of 3 91	
	All	E	4A	D	4A	D	4A	D	4A	B	4A	All	A	4B	A	4B	A	4B	A	4B
Size of farm (acres)	634	320	500	233	320	351	320	351	320	525	370	160	160	320	295	258	397	258	397	0
Acres owned by operators	440	0	400	233	160	264	320	264	320	0	186	160	160	320	295	258	0	258	397	0
Acres rented	194	320	100	0	160	87	0	525	184	0	0	0	0	0	0	0	0	0	0	397
Size of business (work units)	631	455	446	386	262	365	262	722	422	148	300	347	265	434						
INVENTORY JANUARY 1																				
Dairy and dual purpose cattle	\$1490	\$3325	\$150	\$1250	\$	\$467	\$135	\$7027	\$1981	\$	\$1147	\$525	\$557	\$1470						
Beef cattle (incl. feeders)	7223	7470	3795	3463	4909	7200			3655		1035		345	4530						
Hogs	789	90	1090	484	781				405	497	2899		1132	180						
Sheep		2047							341		670		432	3350						
Poultry	551	709	48	350	193	197	36		223	125	245	309	227	237						
Total Productive Livestock	10052	6171	8758	5879	4423	6353	7371	7027	6605	622	4961	2495	2692	9767						
Horses	1275									100			33							
Feed, grains and seeds	6365	2600	7270	1779	5257	4769	4978	2865	4127	1908	18458	6872	9079	3408						
Power machinery	2438	1360	2099	1250	1004	1451	2291	1334	1334		3278	3649	2309	2791						
Crop and general machinery	4528	2865	5303	1859	1073	2745	2454	4275	2972	501	4276	3286	2687	3708						
Livestock equipment	322	205	310	585	266	387	2313	613	613		6	801	269	708						
Auto (farm share)	838			1200	666	621	1228	400	582	1450	2337	1958	1915	1104						
Farm improvements	10519	5278	6405	8230	4156	6264	4024	9319	6235	1545	7271	3066	3961	8000						
Land	34053	13300	13600	14000	24000	17200	31976	12500	18229	21455	64000	36640	40699	40000						
Total Farm Capital	70389	31779	43746	34782	40845	39791	52031	41000	40697	27581	104587	58767	63645	69486						
INVENTORY DECEMBER 31																				
Dairy and dual purpose cattle	\$1562	\$3595	\$150	\$1350	\$	\$500	\$135	\$8440	\$2278	\$	\$1661	\$375	\$679	\$3860						
Beef cattle (incl. feeders)	8265	10050	2175	3357	5194	7245			3805		1752	1065	939							
Hogs	1612	658	1460	913	791				505	460	3949	1470	1470							
Sheep		1875							313	200	373	916	496	3740						
Poultry	200	756	80	115	230	142	12		199	180	276	295	250	230						
Total Productive Livestock	11639	6881	1174	4553	3587	6627	7392	8440	7098	840	8011	2651	3834	7830						
Horses	1413																			
Feed, grains and seeds	5579	3424	8925	2580	6408	5971	5723	3104	5027	470	6372	6364	4402	1939						
Power machinery	3513	1190	1882	1000	599	1150	3683	1392	1392		3225	3012	2079	2367						
Crop and general machinery	4024	2670	5835	3501	1008	3448	2575	3530	3186	392	3196	3387	2325	3323						
Livestock equipment	496	560	592	606	217	472	1990	662	662		188	700	296	773						
Auto (farm share)	834			1050	333	461	922	1178	580	1060	3036	1695	1930	946						
Farm improvements	9588	4913	5945	8245	3784	5991	4815	8961	6110	1387	6713	2772	3624	7500						
Land	34053	13300	13600	14000	24000	17200	31976	12500	18229	21455	64000	36641	40699	40000						
Total Farm Capital	71138	32938	48519	35536	39936	41330	53403	43386	42286	25604	94743	57221	59189	64679						
Average Investment	70763	32359	46132	35159	40390	40561	52717	42194	41492	26593	99665	57994	61417	67083						

Table 1. Summary of Farm and Ranch Inventories, 1956

Farm No.	84		89		Av of 3		80		82		83		86		87		90		91		Av of 7	
	Area No.	E	4B	4B	E	4B	D	4B	D	4B	D	4B	D	4B	D	4B	D	4B	D	4B	D	All
Type of farm																						
Size of farm (acres)																						
Acres owned by operators																						
Acres rented																						
Size of business (work units) ..																						
INVENTORY JANUARY 1																						
Dairy and dual purpose cattle																						
Beef cattle (incl. feeders)																						
Hogs																						
Sheep																						
Poultry																						
Total Productive Livestock																						
Horses																						
Feed, grains and seeds																						
Power machinery																						
Crop and general machinery																						
Livestock equipment																						
Auto (farm share)																						
Farm improvements																						
Land																						
Total Farm Capital																						
INVENTORY DECEMBER 31																						
Dairy and dual purpose cattle																						
Beef cattle (incl. feeders)																						
Hogs																						
Sheep																						
Poultry																						
Total Productive Livestock																						
Horses																						
Feed, grains and seeds																						
Power machinery																						
Crop and general machinery																						
Livestock equipment																						
Auto (farm share)																						
Farm improvements																						
Land																						
Total Farm Capital																						
Average Investment																						

farm or a unit composed of both owned and rented land, the actual operator's labor earning may be greater or less, depending on the provisions of the lease and the crop yields for the year.

There are two methods of computing operator's labor earnings. Table 2 shows the earnings statement on a cash basis and Table 3 on an enterprise basis. The principal difference is that on the cash basis inventory changes are entered as one item, while on the inventory basis they are apportioned to the various enterprises. In the latter way a clearer picture can be obtained concerning actual costs or returns for each enterprise. All figures were computed on a single-operator basis, with partners considered family labor.

Labor earnings, whole farm basis, for 1956 varied from - \$7992 to \$8884, with an average of \$727 and a breakdown as follows:

	No. of farms	Low	Average	High
A - Cash grain farms	12	\$5554	\$1318	\$8029
B - Dairy farms	3	1003	3548	7219
C - Cattle ranches	4	-7992	-1098	3559
D - Livestock farms	30	-5769	206	8884
E - General farms	8	-1595	1650	5522
Area 1	7	-7992	-1606	3559
Area 2 A	10	-5769	313	8029
Area 2 B	13	-2066	649	3114
Area 3 A	4	-3619	2242	6448
Area 3 B	4	-4420	244	4014
Area 4 A	6	-511	3097	7219
Area 4 B	13	-1710	924	8884
All farms	57	-7992	727	8884

RETURN TO CAPITAL AND FAMILY LABOR

Return to capital and family labor is a measure of the total net return to all capital and the labor and management provided by the operator and his family. On an owner-operated farm it is the amount available for interest, inventory increases, and family living. On a rented or part-rented farm, this amount is divided between the landlord and tenant. This measure of earnings is listed in Table 2.

Table 2. Summary of Farm and Ranch Earnings (Cash Statement), 1956

Farm no. Area No. Type of farm	Ave of 57 farms	Ave high	Ave of 15 low	Ave of 15 of	Ave of 3 B	Ave of 4 C	Ave of 30 D	Ave of 8 E	20 1	24 1	23 1	22 1	27 1	Ave of 4/1 C
FARM RECEIPTS														
1. Eggs	\$ 674	\$ 752	\$ 931	\$ 433	\$	\$ 16	\$ 658	\$ 1687	\$ 816	\$	\$	\$	\$	\$
2. Dairy products	1099	2451	417	285	9580		401	2305		35	29			16
3. Poultry	89	104	103	43			77	279	72					
4. Hogs	1948	2164	1980	1072	229	61	2901	1308	1485					
5. Dairy cattle	199	488	65	195	1242		63	388		244				61
6. Beef cattle	7503	4633	12191	2287		33021	8275	2483	11750	28288	8995	16378	78427	33022
7. Sheep and wool	1455	3884	716	454			2443	524						
8. Crops	3610	5575	4100	8674	1654	6130	2072	4256	2558	309			210	130
9. Equipment sold	77	24	3				47	33	45					
10. Custom work	77	146	44	5	426		89	42	194					
11. Work off farm	95	28	35	88		35	125	59		34	105			35
12. Government payments	714	522	931	991	254	339	666	842	1150	590	349		416	339
13. Refunds	157	191	173	204	72	166	155	120		19	170	300	177	166
14. Other income	149	34	205	156	72	859	98	2	165	1698	1406	334		859
15. Total farm sales	17793	21267	21894	14887	13531	34628	18069	14328	18235	30972	11298	17013	79229	34628
16. Increase in inventory	1495	2200			783	25037	118			84812	23066			25037
17. Family living from farm	373	319	461	323	256	318	417	349	428	651	181	402	40	318
18. Total farm receipts	19665	23787	22355	15210	14569	60003	18604	14678	18663	116435	37545	17415	79270	60003
FARM EXPENSES														
19. Equipment purchased	\$1155	\$1859	\$1024	\$1341	\$1092	\$1217	\$946	\$1653	\$ 254	\$ 526	\$1250	\$	\$3093	\$1217
20. Equipment repairs	716	661	879	748	712	710	736	389	1428	1276	619	550	394	710
21. Machine hire	320	390	484	279	236	664	300	314	384	296	275	34	2050	664
22. Gas & oil (other than auto)	997	975	998	1048	963	1084	1000	876	1402	1530	1253	669	883	1084
23. Auto expense	318	243	364	376	250	373	287	350	185	401	202	156	734	373
24. Electricity and telephone	211	185	255	156	328	333	209	194	202	609	115	104	503	333
25. Crop expense	532	574	612	732	566	176	543	359	950	36	113	61	493	176
26. Hired labor	596	696	751	399	741	1913	481	607	433	1998	1209	39	4405	1913
27. Taxes	805	744	995	798	475	1644	757	699	1507	1863	1080	714	2919	1644
28. Insurance	175	139	177	175	154	314	165	191	139	120	620	154	72	241
29. Land purchased	2128	1467				24825	733			78000	21302			24826
30. Miscellaneous expenses	42	43	70	18	258	74	33	23	18			295		74
31. Improvements purchased	253	16	89	133	13	1750	110	307		7000			1750	
32. Improvement repairs	225	203	287	191	56	161	290	131	1550	205	205	292	249	161
33. Livestock purchased	3707	5308	5519	1482	459	11741	4592	927	518	3040	900	41	42984	11741
34. Misc. livestock expense	248	323	263	107	521	264	4268	273	170	90	157	573	236	264
35. Feed and bedding	2159	3113	2533	738	1836	1629	2911	1860	3085	278	1602	1828	2807	1629
36. Total farm purchases	14588	15471	16746	8721	8662	48799	14361	9354	12227	97064	30901	5214	62015	48799
37. Decrease in inventory			2456	1598										
38. Board for hired labor	70	67	86	38	205	121	75	214	5306	288	189	3156	4496	121
39. Unpaid family labor	706	386	1241	881	483	263	796	413	100	900		5		263
40. Interest on farm capital	3574	2953	4731	2654	1671	11919	3167	3021	4742	17740	3858	5330	20751	11919
41. Total farm expenses	18938	18877	25259	13891	11022	51101	18399	13026	22375	115992	34988	13855	87261	61101
42. Operator's labor earnings	727	4909	-2905	1319	3548	1098	206	1650	-3712	443	-403	3559	-7992	-1098
43. Net. to operator & fam. labor	5007	9248	3066	4054	5703	11093	4168	5085	1030	19083	3455	9039	12759	11083

Table 2. Summary of Farm and Ranch Earnings (Cash Statement), 1956

Farm No.	20	21	Ave of	31	33	38	Ave of	32	34	35	36	37	39	40
Area No.	1	1	7/1	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A
Type of farm	B	A	All	E	A	A	A	D	D	D	D	D	D	D
FARM RECEIPTS														
1. Eggs	\$ 1	\$ 1	\$117	\$202	\$ 767	\$ 200	\$383	\$	\$ 27	\$ 9	\$18	\$251	\$ 257	\$889
2. Dairy products	7219	180	1066	1003	86	100	100		719	5	261	169		985
3. Poultry			10			43						9		274
4. Hogs	1227		212	444	179	959	3984	33		7		2265	1749	2114
5. Dairy cattle		100	225										81	
6. Beef cattle		11832	22238	4322	2300	5037	3668	4176	2139	31475	135	7386	21508	13734
7. Sheep and wool					3650	1825	6796	5650	16	7567				
8. Crops		10569	1949	3930	4206	14553	9380	351	1184	1734	1594		3017	
9. Equipment sold			6							350				924
10. Custom work	320		73					705		35				200
11. Work off farm			20		304		152			989	1960		48	41
12. Government payments		1928	633	971	308	927	617	792	507	1513	369	631	1305	1079
13. Refunds			95	240	181	371	276	199	87	244	89	201	273	104
14. Other income	53	1120	682		38		19		33		500			
15. Total farm sales	8820	25729	27328	11111	8369	26477	17423	17004	10380	36377	12492	10911	28237	20314
16. Increase in inventory	586		12563	2579	1115		6549							
17. Family living from farm	213	859	396	555	235	262	249	173	495	165	127	356	29295	640
18. Total farm receipts	9619	26589	40288	14245	9719	26739	17672	23725	10874	36432	12619	11267	57909	20954
FARM EXPENSES														
19. Equipment purchased	\$30	\$865	\$860	\$2013	\$937	\$2045	\$1491	\$3727	\$1113	\$1000	\$	\$	\$4650	\$472
20. Equipment repairs	187	2247	957	1642	744	903	823	1001	327	1325	279	915	1521	628
21. Machine hire	433	837	616	419	1	586	294	109	449	116	32	110	1166	272
22. Gas & oil (other than auto)	344	1511	1085	1537	808	1541	1175	1535	655	1588	1085	817	2266	1493
23. Auto expense	108	479	323	291	572	605	588	325	288	585	284	217	168	401
24. Electricity and telephone	98	285	274	175	228	269	249	161	179	53	95	367	247	218
25. Crop expense	10	1388	436	594	336	1311	824	459	335	1091	113	279	548	782
26. Hired labor	176	1164	1345	80	141	887	514	588	172	1195	162	51	3215	150
27. Taxes	219	1192	1356	1207	733	810	772	730	552	1556	577	800	1459	1316
28. Insurance	101	301	215	187	144	239	191	192	85	380	218	255	196	44
29. Land purchased	74	12	57	19	93		46	3	75			22000		13
30. Miscellaneous expenses	40		1006	1526		132	66					12		211
31. Improvements purchased	63		323	20	567	710	639	264	61	1699	24	153	1374	278
32. Improvement repairs	1380	8515	8197	71	520	1689	1105	6103	737	7941		127	6344	1346
33. Livestock purchased	426	244	271	286	220	192	206	784	176	420	215	289	736	416
34. Misc. livestock expense	1696	613	1701	390	808	2040	1423	1744	741	2219	344	2287	6968	3349
35. Feed and bedding														
36. Total farm purchases	5378	19654	33208	10457	6852	13958	10405	17724	4944	21119	2327	6667	52870	11399
37. Decrease in inventory		7564				2182	533		3605	7001	6630	6565		2515
38. Board for hired labor		180	122	15	30		15	110		360		5	730	30
39. Unpaid family labor	90	1050	321	50	525		263		1313	700	700	750		2100
40. Interest on farm capital	1580	3696	8242	4322	2405	2570	2487	3082	2272	6905	2039	3049	5551	3943
41. Total farm expenses	7198	32143	41893	14844	9812	18710	13704	20916	12132	36085	12796	17036	59152	19977
42. Operator's labor earnings	2421	-5554	-1606	-599	-92	8029	3968	2808	1258	457	-178	-5769	-1243	978
43. Ret. to capital & fam. labor	4151	-809	6958	3774	2837	10599	6718	5881	2326	2061	2551	1000	4009	1000

Table 2. Summary of Farm and Ranch Earnings (Cash Statement), 1956

Farm No. Area No. Type of farm	Ave of												1	2B	E	A
	Av of															
	7	10/2A	2B	3	2	4	6	9	11	10	5	9/2B				
FARM RECEIPTS																
1. Eggs	\$ 207	\$ 242	\$ 3288	\$ 1825	\$ 324	\$ 745	\$ 507	\$ 569	\$ 542	\$ 294	\$ 899	\$ 271	522	12		
2. Dairy products	306	334	196	818	625	776	461	1088	607	1129	461	1088	522	2B		
3. Poultry	40	37	218	144	53	50	50	60	98	32	78	115	1421	1		
4. Hogs	1449	1251	5502	5537	985	960	2847	817	1977	152	2847	817	1421	2B		
5. Dairy cattle	13	9	4040	5696	5378	17193	16812	3916	336	6714	7908	1104	1500	A		
6. Beef cattle	11507	9221	7460	346	2112	410	728	621	2132	4802	2301	2420	5041			
7. Sheep and wool	2861	2368	463	255	442	451	141	105	95	385	416	207	610			
8. Crops	1126	3057	42	167	45	150	141	105	100	175	148	85	470			
9. Equipment sold	182	127	106	116	8528	27305	19095	13730	8194	14277	15433	6697	9998			
10. Custom work	134	94	1822	1088	908	428	527	491	388	4117	91	14206				
11. Work off farm	430	331	1053	21970	15527	9530	14752	15959	7576	14206						
12. Government payments	885	840	304	645	9173	27609	21970	15527	9530	14752	15959	7576	14206			
13. Refunds	171	199	307	145	45	150	141	105	100	175	148	85	470			
14. Other income	76	57	117	116	8528	27305	19095	13730	8194	14277	15433	6697	9998			
15. Total farm sales	19388	18167	16409	16068	15287	8528	27305	19095	13730	8194	14277	15433	6697	9998		
16. Increase in inventory	1361	1104	1822	1088	908	428	527	491	388	4117	91	14206				
17. Family living from farm	333	338	1053	21970	15527	9530	14752	15959	7576	14206						
18. Total farm receipts	21082	19609	16634	16740	15517	9173	27609	21970	15527	9530	14752	15959	7576	14206		
FARM EXPENSES																
19. Equipment purchased	\$ 1423	\$ 1496	\$ 929	\$ 929	\$ 929	\$ 585	\$ 47	\$ 161	\$ 490	\$ 1278	\$ 498	\$ 498	\$ 1996			
20. Equipment repairs	857	928	761	664	182	888	383	577	420	763	640	290	625			
21. Machine hire	322	326	61	61	306	928	221	104	161	616	303	93	182			
22. Gas & oil (other than auto)	1348	1332	1644	849	694	1663	865	1329	1073	901	1111	606	1699			
23. Auto expense	324	373	334	137	195	421	263	445	259	513	292	292	163			
24. Electricity and telephone	189	199	276	355	162	603	229	284	180	403	278	136	85			
25. Crop expense	515	585	628	214	182	1158	159	258	425	435	459	193	1044			
26. Hired labor	790	664	733	29	65	15	136	282	39	1387	496	285	297			
27. Taxes	999	974	931	535	359	827	472	788	426	812	636	391	1138			
28. Insurance	188	189	133	172	99	211	151	164	102	235	153	200	35			
29. Land purchased	3143	2200	126	126	10	61	10	15	93	27	27	27	30			
30. Miscellaneous expenses	15	21	601	16	75	374	13	13	46	323	104	125	30			
31. Improvements purchased	30	187	40	52	2348	8630	13257	1433	1418	1568	3360	319	77			
32. Improvements repairs	551	515	837	528	225	108	98	153	106	390	201	56	77			
33. Livestock purchased	3228	3288	480	297	55	108	479	443	656	460	1906	183	1048			
34. Misc. livestock expense	434	373	126	480	452	1904	479	443	656	460	1906	183	1048			
35. Feed and bedding	2521	2089	1506	5751	5506	18375	46770	6447	5750	10668	10596	10279	8420			
36. Total farm purchases	16877	14941	10114	11977	10088	5174	18375	6447	5750	10668	10596	10279	8420			
37. Decrease in inventory			2208	2384	2942	2107	5200			972	1333		90			
38. Board for hired labor	176	128	128	128	15	15	84	11		180	46	32	32			
39. Unpaid family labor	795	614	525	525	1925	1925	350	2450	525	700	778	525	90			
40. Interest on farm capital	3834	3614	4261	2725	1636	4176	2411	4537	2416	2739	3021	1944	2582			
41. Total farm expenses	21682	19296	16582	17739	15842	8933	29676	19615	8691	15259	15774	5679	11091			
42. Operator's labor earnings	-601	313	52	-999	-324	240	-2066	2356	840	-507	186	1897	3114			
43. Ret. to capital & fam. labor	4014	4541	4313	2251	7487	1876	4035	5117	9069	2332	3984	4366	5696			

Table 2. Summary of Farm and Ranch Earnings (Cash Statement), 1956

Farm No.	13	Ave of	8	Ave of 13	51	54	Ave of 2	53	Ave of 2	4	61	64	Av of 2
Area No.	2B	2B	2B	2B	3A	3A	3A	3A	3A	3A	3B	3B	3B
Type of farm	A	All	D	D	D	D	D	A	A	A	E	E	E
FARM RECEIPTS													
1. Eggs	\$ 497	\$ 248	\$ 8308	\$ 682	\$ 825	\$1857	\$1341	\$ 86	\$ 94	\$ 717	\$4339	\$1880	\$3110
2. Dairy products		26	13	1077	1221	765	993		43	518	3118	197	1657
3. Poultry		102	690	65	193	63	128			64	959	381	670
4. Hogs		218	1466	2204	1063	5123	3093			1547	3065		1532
5. Dairy cattle		2826	2163	5892	9963	3062	395			197	779		390
6. Beef cattle				155	1732	866	866	2472	1236	3874	5398	2695	\$4046
7. Sheep and wool				2671	2061	3012	2537	2538	11581	433	6676	2242	4459
8. Crops						101							
9. Equipment sold													
10. Custom work		56		49							96		48
11. Work off farm		45		24				114	62	31		356	178
12. Government payments		202	438	400	617	861	739	1539	930	34	544	1665	1105
13. Refunds		246	97	172	324	216	270	345	344	307	74	19	46
14. Other income			140	44	34	17				8			
15. Total farm sales	10206	10102	11489	13637	18823	15060	16942	7078	14289	15615	25049	9435	17242
16. Increase in inventory	1017	2567				2137		2349			9204	540	4872
17. Family living from farm	511	301	408	480	751	792	771	285	142	457	617	120	368
18. Total farm receipts	11734	12970	11897	14117	19574	17989	17713	9711	14431	16072	34870	10094	22482
FARM EXPENSES													
19. Equipment purchased	\$100	\$1048	\$ 209	\$ 522	\$ 222	\$ 315	\$ 272	\$ 423	\$2507	\$1389	\$5384	\$2900	\$4142
20. Equipment repairs	637	631	957	636	1122	385	753	917	939	846	1075	183	629
21. Machine hire	105	143		239	58	363	211	155	293	252	1026	79	552
22. Gas & oil (other than auto)	1641	1670	1061	1155	952	896	924	1316	991	958	1657	543	1100
23. Auto expense	225	194	367	283	359	74	217	395	275	245	445	325	385
24. Electricity and telephone	114	100	527	259	232	77	154	110	55	105	418	124	271
25. Crop expense	421	733	809	508	83	939	511	1105	643	577	518	227	373
26. Hired labor	524	411	7	429	176	25	110	361	300	200	2641	560	1325
27. Taxes	635	887	486	644	853	709	781	954	1052	916	1394	560	977
28. Insurance	239	137	199	158	76	54	65	232	116	91	383	242	313
29. Land purchased			629	67				26	13	6		19	10
30. Miscellaneous expenses				89							37		18
31. Improvements purchased													
32. Improvement repairs	238	134	106	111	46	17	31	264	132	82	181	421	301
33. Livestock purchased	2000	1000		2505	4463	811	2637	180	90	1364	3931	210	2070
34. Misc. livestock expense	50	73	676	205	140	266	203	58	29	116	572	163	368
35. Feed and bedding	91	569	1614	1546	1767	3091	2429	121	61	1245	5724	1386	3555
36. Total farm purchases	7019	7720	7647	9356	10555	8022	9288	6618	7495	8392	25395	7884	16390
37. Decrease in inventory				546	6807		2335		794	1564			
38. Board for hired labor	30	60	622	44	35		18	38	18	18	80		40
39. Unpaid family labor	600	300	1300	725	3045	2100	2573	900	450	1511	250	509	375
40. Interest on farm capital	2743	2662	1325	2752	2752	2091	2521	1793	2268	2345	5131	2296	3713
41. Total farm expenses	10392	10742	10893	13423	23193	12213	16635	9347	11025	13880	30856	10180	20518
42. Operator's labor earnings	1342	2228	1003	694	3619	5776	1079	364	3406	2242	4014	-86	1964
43. Ret. to capital & fam. labor	4685	5190	3628	4171	2117	9967	607s	3057	6124	5098	9394	2711	6053

Table 2. Summary of Farm and Ranch Earnings (Cash Statement), 1956

Farm No.	63	62	Average of 4	73	71	72	75	Average of 4	74	76	Average of 6	85	88	92
Area No.	3B	3B	3B	4A	4A	4A	4A	4A	4A	4A	4A	4B	4B	4B
Type of farm	D	A	All	E	D	D	D	D	A	B	All	A	A	A
FARM RECEIPTS														
1. Eggs	\$461	\$ 936	\$ 1904	\$2497	\$ 142	\$1445	\$ 380	\$ 656	\$	\$	\$ 744	\$ 287	\$ 515	\$2005
2. Dairy products	173	1127	1154	2509		2150		717	13215		2979		283	1019
3. Poultry	27	141	377	144	45	66	106	73			60	63	22	174
4. Hogs	2539	1678	1820	490	3958	3801	1165	2975	588		1667	1327	5826	
5. Dairy cattle		205	246	676		322		107		1032	338			1605
6. Beef cattle	7577	1112	4195		5073	1985	8901	5320	368		2721			
7. Sheep and wool				1808							301	277	1274	249
8. Crops	6310	5460	5172	2387	3350	1212	3656	2739	7197	4611	3735	2413	16338	8944
9. Equipment sold														
10. Custom work			24	85		78		26		960	187			
11. Work off farm	4		90		10		70	27			13	224	470	
12. Government payments	139	88	609		86	302	330	239	793	323	305	1660	2470	1050
13. Refunds	759		213	190	96	103	147	114		119	108	116	218	162
14. Other income	1479		370		18	199		72	529	23	128	10		59
15. Total farm sales	19467	10746	16174	10785	12777	11664	14751	13064	9475	20283	13289	6377	27417	15269
16. Increase in inventory			749	1159	4774	754		1539	1371	2386	1589			
17. Family living from farm	758	366	465	355	350	155	98	201	310	146	236	126	550	289
18. Total farm receipts	20225	11112	17388	12299	17900	12572	14849	14804	11157	22816	15114	6502	27967	15557
FARM EXPENSES														
19. Equipment purchased	\$1705	\$1110	\$2775	\$ 708	\$1465	\$2927	\$ 103	\$1498	\$ 935	\$3037	\$1529	\$	\$2255	\$ 832
20. Equipment repairs	2290	368	979	210	405	635	319	453	693	990	542	237	340	310
21. Machine hire	34	206	336	83	278	221	126	208	225	289	12	320	12	289
22. Gas & oil (other than auto)	1478	936	1154	433	665	728	955	783	1011	1484	879	351	518	571
23. Auto expense	675	316	440	421	234	234	168	134	555	275	275	240	464	341
24. Electricity and telephone	117	100	190	281	121	108	260	163	127	360	210	116	306	128
25. Crop expense	876	296	479	168	499	645	695	613	715	877	600	156	614	1220
26. Hired labor	397	292	834	59	952	149	706	602	671	2049	764	134	53	27
27. Taxes	1234	539	932	618	806	366	388	520	526	722	571	359	977	563
28. Insurance	620	141	347	293	88	44	78	67	225	153	147	341	165	39
29. Land purchased														
30. Miscellaneous expenses	34	13	13	13	58	55	13	42		72	35		87	
31. Improvements purchased		9		43		400		133	1270		285		199	
32. Improvement repairs	83	123	200		422	270	83	259	20		133	10	276	64
33. Livestock purchased	1811	948	1725	200	2713	190	3627	2177	636		1228	413	2189	699
34. Misc. livestock expense:	247	57	260	181	211	212	38	154	43	462	191	35	214	88
35. Feed and bedding	1137	628	2219	1220	1245	3421	2137	2268	19	2198	1707	625	1862	995
36. Total farm purchases	12739	6049	12892	4929	9928	10605	9686	13073	7670	12962	9297	3339	10531	6166
37. Decrease in inventory														
38. Board for hired labor	4650	2098					910					1977	9844	1545
39. Unpaid family labor	2000	40	30	5	35	20	240	98		525	137	30	15	
40. Interest on farm capital	5256	1467	3538	1618	2407	1758	2020	507	1200		491		4200	2100
41. Total farm expenses	24645	9654	17147	6777	13190	13083	12855	12740	11506	15596	12016	1330	4983	2900
												6676	29593	12710
42. Operator's labor earnings	- 4421	1458	251	5522	4710	- 511	1993	2064	- 349	7219	3097	173	- 1806	2847
43. Ret. to capital & fam. labor	2836	2925	4467	7365	7937	1547	4013	4632	- 3486	9329	5679	1156	7577	7847

Table 2. Summary of Farm and Ranch Earnings (Cash Statement), 1956

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Farm No. Area No. Type of farm	av of 3 4B	81 4B	84 4B	89 4B	av of 3 4B	80 4B	82 4B	83 4B	86 4B	87 4B	90 4B	91 4B	av of 7 4B	av of 13 4B
	A	E	E	E	E	D	D	D	D	D	D	D	D	ALL
FARM RECEIPTS														
1. Eggs	936	986	45	3276	1436	734	1667			854	628	390	610	876
2. Dairy products	434	2402	8195		3533	474				908	32		202	1024
3. Poultry	86	138	44	454	212	40	238			125	222	124	107	127
4. Hogs	2384	524	5124		1883	3766	1562	9811	7553	7146	2297		4591	3457
5. Dairy cattle	535		1551		517					71			10	248
6. Beef cattle		4524		1821	2115	7380	2093	5891	2650	958	2976	26227	6889	4198
7. Sheep and wool	600	1690	364		685		401		240			49206	7121	4131
8. Crops	9231	4595	7065	4734	5465	2476	246	918	3498	675	171	3416	1629	4268
9. Equipment sold			265		86									20
10. Custom work			32		11	178		804					140	78
11. Work off farm	231				11	195			300				71	91
12. Government payments	1727	157	728	2460	1115	1908		1360	589	1692		998	935	1159
13. Refunds	166	140	161	53	118	119	53	83	127	11	40		58	162
14. Other income	23			15	5	50			25	3			11	13
15. Total farm sales	16354	15155	23575	12815	17182	17321	6260	18867	14982	12373	6437	80451	22385	19792
16. Increase in inventory						107	4980		451		2095	15897	2287	
17. Family living from farm	321	389	210	63	221	192	528	1	114	348	159	767	301	287
18. Total farm receipts	16676	15545	23785	12878	17403	17621	11778	18868	15547	12721	8692	97115	24943	20080
FARM EXPENSES														
19. Equipment purchased	\$1029	\$ 225	\$1900	\$ 92	\$ 739	\$3664	\$ 262	\$	\$1458	\$ 98	\$1055	\$ 390	\$ 990	\$ 941
20. Equipment repairs	296	617	661	35	438	464	186	990	446	109	350	1205	536	458
21. Machine hire	207	242	573		272	63	659	329	55	274	42	1140	366	308
22. Gas & oil (other than auto)	480	1072	842	321	745	424	364	421	456	224	408	1182	497	550
23. Auto expense	348	632	209	186	342	214	342	467	181	238	368	195	286	314
24. Electricity and telephone	184	135	237	47	140	315	111	118	128	211	143	305	191	178
25. Crop expense	663	328	353	494	594	583	506	767	311	493	594	600	551	540
26. Hired labor	71		1781		594	91	204	366	84	243	9	594	227	276
27. Taxes	633	700	274	448	474	592	422	642	384	497	672	932	592	574
28. Insurance	182	100	83	27	70	130	54	248	95	220	234	172	165	147
29. Land purchased														
30. Miscellaneous expenses	29	3	120	10	44	27	34	27		38	13	314	65	52
31. Improvements purchased	66			850	283	658				232	656		221	200
32. Improvement repairs	117	6	244	47	98	268	141	115	140		148	623	205	160
33. Livestock purchased	1100	1660	727	303	897	3979	3521	1348	554	457	154	60769	10112	5906
34. Misc. livestock expense	112	494	317	115	309	230	40	556	277	251	150	415	274	245
35. Feed and bedding	1161	1014	3595	1366	1992	3415	1157	5317	5851	15533	941	14421	5234	3546
36. Total farm purchases	6678	7228	11916	4341	7828	15117	8005	11711	10421	9117	5946	83258	20511	14392
37. Decrease in inventory	4455	4807	3434	7342	5194			4980		2551				995
38. Board for hired labor	15		70		23	7	90	60					22	21
39. Unpaid family labor	2100	1750			583	800	1050			1000			379	823
40. Interest on farm capital	3071	3354	3266	2236	2952	2545	375	2548	1907	1363	2552	4973	2849	2924
41. Total farm expenses	16319	17140	18686	13919	16582	18270	12800	19299	12328	14431	8498	88231	23761	19155
42. Operator's labor earnings	356	1595	5099	-1041	821	649	-1023	431	3218	-1710	194	8884	1212	924
43. Ret. to capital & fam. labbr	5527	3590	8366	1195	4357	2496	3683	2117	5126	1053	2745	13857	4440	4671

RETURN ON INVESTMENT

Return on investment represents the rate of return to the average capital investment after a charge has been made for the value of the operator's labor as well as that of his family. In making the computations, the imputed wage used was \$175 per month or \$2100 per year. The percentage returns are included in Table 3; highs, lows, and averages were as follows:

	High (%)	Average (%)	Low (%)
A - Cash grain farms	16.5	3.5	-5.4
B - Dairy farms	17.9	9.3	6.8
C - Cattle ranches	6.4	3.7	1.8
D - Livestock farms	13.7	2.1	-7.9
E - General farms	15.6	4.3	-3.5
Area 1	6.4	2.8	-5.4
Area 2 A	16.5	2.6	-7.9
Area 2 B	10.6	2.4	-0.7
Area 3 A	13.7	5.3	-5.7
Area 3 B	6.9	2.4	-1.2
Area 4 A	17.9	7.4	-2.4
Area 4 B	11.7	3.1	-5.8
All farms	17.9	3.1	-7.9

EXPLANATION OF TERMS

In addition to the measures of earnings already explained, the following terms have been used in this report:

Farm sales: Receipts from all farm enterprises and miscellaneous sources, including the sale of capital items.

Total farm receipts: Farm sales plus increases in inventories and the value of family living from the farm.

Family living from the farm: The value of farm-produced food and fuel used by the household.

Farm purchases: Expenditures for operation, maintenance, and the purchased of capital item.

Total farm expense: Farm purchases plus decrease in inventories, board furnished hired labor, unpaid family labor, and interest at 5% on average capital investment.

Table 3. Summary of Farm Earnings (Enterprise Statement), 1958

Area No. Farm Type	State		15 top ave.		15 low ave		State A		State B		State C		State D		State E		I		I		I	
	Ave.	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	\$	
RETURNS AND NET INCREASES																						
Dairy cows	944	2447	143	266	9982	140	2056	12907	10379	25367	11566	1469										
Other dairy cattle	176	411	63	194	1372	46	273															
Beef herd or mixed cattle	3862	2322	4250	1114		4593	2296															
Feeders	1547	1470	3249	539		1543	454															
All cattle	6529	6651	7706	2114	11353	6323	5080	20859	10380	25367	11566	1469										
Hogs	1969	2447	1874	1111	302	2777	1835		1241													
Sheep	710	1689	685	414		1031	521		969	118	59											
Poultry	730	742	1000	481	24	717	1756															
Other livestock	9948	11529	11304	4119	11679	10867	9192	20912	12589	25486	11625	1472										
All Productive Livestock																						
Value of feed fed	7140	7266	8933	3487	5456	8027	6378	14226	11127	19599	7038	406										
Return over feed	2811	4263	2372	633	6223	2840	2815	6686	1463	4886	4587	1066										
Crops, feed, and seed	8005	9728	7863	9376	5353	7085	7782	13229	9209	21743	4467	34										
Work off farm	97	28	35	97		125	59	35		34	105											
Government payments	698	522	931	991	254	666	842	339	1150	590	340											
Miscellaneous income	120	34	106	146	72		2	859	165	1698	1406	33										
Total returns and net increase	11757	14576	11306	11243	11902	10764	11499	21148	11987	29951	10914	144										
EXPENSES AND NET DECREASES																						
Horses	41	26	37	12	48	27	30	239	1089	153	719	16										
Auto (farm share)	548	397	606	646	407	504	548	688	1644	821	620	3										
Machinery and equipment	2913	2652	3597	3097	2390	2990	2605	2795	5015	4078	2315	17										
Hired power	319	390	484	279	236	300	314	664	384	296	275											
Elec. & tel. (farm share)	211	185	254	156	328	209	194	333	202	610	115	1										
Total power & machinery	4033	3651	4979	4189	3420	4032	3692	4719	6071	6356	3485	22										
Improvements	779	668	943	666	523	786	903	1089	2519	153	719	16										
Taxes	805	744	995	798	475	757	698	1644	1507	1863	1080	7										
Insurance	175	139	177	175	154	165	191	241	139	120	619	1										
Misc. livestock expense	248	323	263	107	521	268	273	264	170	89	157	5										
Labor	1372	1150	2077	1318	1430	1352	1045	2296	533	3186	1398	1										
Other expenses	43	43	50	18	258	33	23	74	18													
Interest on inv. at 5%	3574	2953	4731	3654	1671	3167	3021	11919	4742	17739	3858	53										
Total expenses and net decreases	11029	9667	14214	9924	8354	10559	9846	22246	15700	29508	11317	108										
Operator's labor earnings	727	4909	-2905	1319	3548	206	1651	1098	-3712	443	-403	35										
Total farm sales	17797	21267	21894	14887	13530	18069	14328	34628	18235	30972	11298	170										
Total prod. livestock sales	12967	14737	16507	4768	11053	14819	8975	33099	14123	28323	9268	163										
Total crop sales	3609	5577	4537	6674	1654	2072	4256	129	2558	309												
% of sales from prod. livestock	72.9	69.3	75.4	32.0	81.7	82.0	62.6	9516	77.4	90.9	82.0	95										
% of sales from crops	20.3	26.2	20.2	48.3	12.2	11.6	29.7	0.3	14.0	9.0												
Return to cap. & fam. labor	5007	8248	3066	4854	5703	4168	5085	11083	1030	19083	3455	90										
Value of op. and fam. labor	2806	2486	3323	2981	2583	2896	2513	2363	2100	3000	2100	6										
Return to capital	2201	5762	-257	1873	3119	1272	2572	8721	-1070	15083	1355	6										
Average farm investment	71474	59071	94619	53149	33428	61169	60307	238394	94843	354798	77155	1066										
% return to capital	3.1	9.6	-3	3.5	9.3	2.1	4.3	3.7	-1.1	4.5	1.8											

Table 3. Summary of Farm Earnings (Enterprise Statement), 1956

Area No.	Farm No.	Type	C	E7	Average	I	B	I	25	I	1	all av	E	2A	31	2A	33	2A	38	A	av	2A	32	D	2A	36	D
RETURNS AND NET INCREASES																											
Dairy cows																											
Other dairy cattle																											
Beef herd or mixed cattle																											
Feeders																											
All cattle																											
Hogs																											
Sheep																											
Poultry																											
Other livestock																											
All productive livestock																											
Value of feed fed																											
Return over feed																											
Crops, feed, and seed																											
Work off farm																											
Government payments																											
Miscellaneous income																											
Total returns and net increases																											
EXPENSES AND NET DECREASES																											
Horses																											
Auto (farm share)																											
Machinery and equipment																											
Hired power																											
Elec. & tel. (farm share)																											
Total power & machinery																											
Improvements																											
Taxes																											
Insurance																											
Misc. livestock expense																											
Labor																											
Other expenses																											
Interest on inv. at 5%																											
Total expenses and net decreases																											
Operator's labor earnings																											
Total farm sales																											
Total prod. livestock sales																											
Total crop sales																											
% of sales from prod. lvsstk.																											
% of sales form crops																											
Return to cap. & fam. labor																											
Value of op. and fam. labor																											
Return to capital																											
Average farm investment																											
% return to capital																											

Table 3. Summary of Farm Earnings, (Enterprise Statement), 1956

Farm No.	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B	2B
Type	E	A	A	A	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B	B
RETURNS AND NET INCREASES																				
Dairy cows																				
Other dairy cattle																				
Beef herd or mixed cattle																				
Feeders																				
All cattle																				
Hogs																				
Sheep																				
Poultry																				
Other livestock																				
All productive livestock																				
Value of feed fed																				
Return over feed																				
Crops, feed, and seed																				
Work off farm																				
Government payments																				
Miscellaneous income																				
Total returns and net increases																				
EXPENSES AND NET DECREASES																				
Horses																				
Auto (farm share)																				
Machinery and equipment																				
Hired power																				
Elec. & tel. (farm share)																				
Total power & machinery																				
Improvements																				
Taxes																				
Insurance																				
Misc. livestock expense																				
Labor																				
Other expenses																				
Interest on inv. at 6%																				
Total expenses and net decreases																				
Operator's labor earnings																				
Total farm sales																				
Total prod. livestock sales																				
Total crop sales																				
% of sales from prod. lvsstk.																				
% of sales from crops																				
Return to cap. & fam. labor																				
Value of op. and fam. labor																				
Return to capital																				
Average farm investment																				
% return to capital																				

Table 3. Summary of Farm Earnings (Enterprise Statement), 1956

Area No. Farm No. Type	3B 64 E	3B E AV	3B D	3B A	3B 62 A	3B all av	4A 73 E	4A 71 D	4A 72 D	4A 75 D	4A D av	4A 74 A	4A 74 A	4A 76 B	4A all av	4B 85 A	4B 88 A
RETURNS AND NET INCREASES																	
Dairy cows		\$1703			\$1448 477	\$1213	\$3022							\$13446	\$2745	\$	553
Other dairy cattle	\$4361	3871	\$8724			\$116	1092							2523	602		514
Beef herd or mixed cattle		1622				811		\$2058 3147	\$2937						826		
Feeders		7196	8724			6260	4114	5205	2937	5242	2797				1398		168
All cattle	4361	2875	1804			1614	1054	4382	4280	5242	4461	37	15969		5572		1236
Hogs							1636			397	3020	473			1764	1188	6452
Sheep		2916	654			979	2546			497	645	16			273	277	993
Poultry	2189		588					244	1192						749	404	652
Other livestock																	
All productive livestock	6550	12987	11769			4518	10565	9830	8410	6137	8126	452	15969		8358	1869	9334
Value of feed fed	5007	9667	8641			3462	7860	6392	5255	4027	5225	2552	8374		5360	1205	4103
Return over feed	1543	3319	3128			1055	2706	3791	3155	2109	2901	2100	7595		2998	664	5231
Crops, feed, and seed	5401	11267	8999			6619	9538	9659	3202	6052	6304	9961	9977		7645	1414	5878
Work off farm	356	178	4			90		10	27	70					13	224	470
Government payments	1665	1105	139			88	609	85	302	329	239	793	323		305	1660	2470
Miscellaneous income								18	199		72	529	23		128	10	
Total returns net incr.	8965	15869	12270			7762	12943	13211	6857	8561	9543	9182	17919		11090	3972	14048
EXPENSES AND NET DECREASES																	
Horses	50					\$ 25										\$	100
Auto (farm share)	\$526	\$625	\$1221			\$503	744	\$421	\$	384	\$501	\$862	\$397	\$427	\$	630	\$890
Machinery and equipment	1978	3367	5220			2546	3625	1085	1842	2695	1754	2519	3208	2184		581	2719
Hired power	79	552	34			206	336	83	278	221	127	225	276	202		320	12
Elec. & tel. (farm share)	124	271	117			100	190	281	121	108	260	163	360	210		116	306
Total power & mach.	2707	4866	6592			3354	4919	1871	2241	3408	2642	3732	4240	3022		1748	3927
Improvements	2563	1919	309			415	1140	408	883	655	455	499	359	543		168	1033
Taxes	560	977	1234			539	932	618	806	366	388	520	722	571		359	977
Insurance	242	313	620			141	347	293	88	44	68	225	163	147		391	165
Misc. livestock expense	163	368	247			57	260	181	211	212	38	43	462	191		35	214
Labor	500	1740	2397			332	1552	288	1807	869	996	1871	2573	1392		164	4268
Other expenses	19	10	34				13	13	58	55	13	42	72	35		87	
Interest on inv. at 5%	2296	3713	5256			1467	3538	1618	2407	1758	2020	2666	2110	2091		1329	4983
Total expenses and net decreases	9051	13905	16690			6304	12701	5289	8501	7368	6568	9531	10699	7993		4146	15654
Operator's labor earnings	-86	1964	-4421			1458	241	5522	-511	1993	2064	-349	7219	3097		-173	-1606
Total farm sales	9435	17242	19467			10746	16174	10785	11666	14751	13065	9475	21372	13471		6377	27417
Total prod. livestock sales	5154	11406	12255			5198	10067	8123	9218	11152	9939	957	12083	8830		1953	7921
Total crop sales	2242	4475	6310			5460	5180	2387	3350	1211	3656	7197	4611	3735		2413	16338
% of sales from prod. livestock	54.6	66.2	63			48.4	62.2	75.3	81.0	75.6	76.1	10.1	65.8	65.6		30.6	28.9
% of sales from crops	23.8	26.0	32.4			50.8	32.0	22.1	26.2	24.7	20.0	76	21.5	27.7		64.8	59.5
Return to cap. & fam. labor	2711	6053	2836			2926	4467	7365	7937	1947	4013	3486	9329	5680		1156	7577
Value of op. and fam. labor	2600	2475	4100			2100	2788	2325	2800	2100	2607	3300	2100	2591		2600	6300
Return to capital	111	3578	-1254			825	1679	5040	-853	1913	2026	186	7229	3089		944	1277
Average farm investment	45929	74295	105125			29339	70763	32359	46132	35159	40390	52717	42194	41492		26593	99665
% return to capital	0.2	4.8	-1.2			2.8	2.4	15.6	-2.4	4.7	5.0	0.4	17.4	7.4		-3.5	1.3

Table 3. Summary of Farm Earning (Enterprise Statement), 1956

Area No. Farm No. Type	4B 92 A	4B 81 A	4B 84 E	4B 89 E	4B 80 D	4B 82 D	4B 83 D	4B 86 D	4B 87 D	4B 90 D	4B 91 D	4B D ave.	4B Dist. all av
RETURNS AND NET INCREASES													
Dairy cows	\$915	\$489	\$8357	\$2786	\$365	\$1326	\$189	\$858					
Other dairy cattle	1345	620	1095	1174		434	62	261					
Beef herd or mixed cattle							1950	1321					
Feeders		56					2262	1261					
All cattle	2261	1165	9451	\$386	3601	318	\$13801	3700					
Hogs		2547	5582	386	4501	2078	4463	3386					
Sheep	540	604	139			5810	4351	1459					
Poultry	1974	1010	136	3473	953	911	2148	988					
Other livestock							728						
All productive livestock	4775	5326	15309	3859	9055	8799	11691	9534					
Value of feed fed	2892	2733	5614	2465	6261	6632	8510	6542					
Return over feed	1883	3592	6115	1394	2794	2167	3180	2992					
Crops, feed, and seed	9138	5476	8639	569	3061	937	5227	5363					
Work off farm		231			195	300	71	91					
Government payments	1050	1727	728	2460	1908	1692	935	1159					
Miscellaneous income	59	23	15	15	50	3	11	13					
Total returns and net inc.	12131	10050	15483	4438	3008	4799	9425	9619					
EXPENSES AND NET DECREASES													
Horses	\$33	\$708	\$50	\$173	\$319	\$50	\$7	\$15					
Auto (farm share)	\$604	708	497	\$354	2356	\$332	467	541					
Machinery and equipment	2188	1829	2648	1615	63	2016	2058	2052					
Hired power	289	207	573	272	315	55	42	308					
Elec. & tel. (farm share)	128	184	237	47	139	128	154	178					
Total power & machinery	3208	2961	4005	2016	3054	2530	3113	3094					
Improvements	358	519	506	627	1382	340	496	539					
Taxes	563	633	700	448	592	497	672	574					
Insurance	39	182	83	27	130	95	172	147					
Misc. livestock expense	88	112	317	115	230	277	165	174					
Labor	2127	2186	1851	10	698	84	274	245					
Other expenses		29	120	44	27	38	65	52					
Interest on inv. at 5%	2900	3071	3266	2236	2545	1907	2849	2924					
Total expenses and net dec.	9283	9694	10383	5479	8657	5618	8213	8694					
Operator's labor earnings	2847	356	5099	-1041	-649	-1710	1211	924					
Total farm sales	15269	16354	23575	12814	17321	14982	22385	19792					
Total prod. livestock sales	5053	4976	15324	5552	12395	10442	19531	14060					
Total crop sales	8944	9231	7065	4734	2476	3498	1629	4268					
% of sales from prod. lvsstk.	33.1	30.4	65.0	43.4	71.6	69.7	87.3	71.0					
% of sales from crops	58.6	56.4	30.3	36.9	14.3	27.3	94.5	21.6					
Return to cap. & fam. labor	7847	5527	8366	1195	2496	5125	13857	4671					
Value of op. and fam. labor	4200	4200	2100	1838	2700	2100	2429	2876					
Return to capital	3647	1327	6266	-643	-204	3025	2011	1795					
Average farm investment	57994	61417	65328	44728	50907	38144	57177	58587					
% return to capital	6.3	2.2	9.6	-1.4	-4	7.9	3.5	3.1					

Work unit: The average accomplishment of a worker in a ten hour day, working on crops and productive livestock at average efficiency. The standard work units used in the report are as follows:

<u>Crops</u>			<u>Livestock</u>		
<u>Item</u>	<u>Per</u>	<u>W.U.</u>	<u>Item</u>	<u>Per</u>	<u>W.U.</u>
Corn (picked)	acre	0.7	Milk cows	head	10.0
Corn (hogged off)	"	0.4	Dairy bull	"	3.5
Silage	"	1.0	Other dairy cattle	"	1.75
Sorghum grain	"	0.6	Beef cows & bulls	"	2.8
Soybeans, grain	"	0.5	Other beef cattle	"	1.05
Small grain	"	0.5	Feeder cattle	cwt. gain	.25
Alfalfa hay	"	0.6	Ewes and rams	head	.21
Other tame hay	"	0.5	Lambs	"	.1
Wild hay	"	0.4	Hogs	cwt. produced	.2
			Poultry	hen	.2

Work Units per worker: A measure of efficiency in the use of labor on a farm.

Productive livestock units: A productive livestock unit also known as "animal unit," is a common denominator used in counting livestock. It represents 1 dairy cow or bull, 2 other dairy cattle, $1\frac{1}{4}$ beef cows or bull, 1 feeder steer or heifer, $3\frac{1}{3}$ other beef cattle, 7 sheep, 14 lambs, 5 pigs, 50 hens or 100 other chickens.

Productive livestock units per worker: A physical measure of the amount of livestock per worker.

Productive livestock units per 100 acres: A measure of the intensity of livestock on the farm.

Crop yield index: A comparison of the yield per acre of all crops on a given farm with the average for the group. Indices used in this report were based on area averages.

Livestock returns for \$100 of feed: A measure of efficiency in converting feed into livestock products. It is obtained by dividing the value of the net livestock increased by the value of feed fed. This can be done for all of the livestock on a farm and for the individual enterprises.

Index of return to feed: A measure of return to feed in relation to the group average. It is obtained by dividing the return to \$100 of feed for all productive livestock on a farm by the group average and multiplying by 100.

Power, machinery, and building expense per work unit: A measure of efficiency in the use of these factors of production. It is obtained by totaling all costs of repairs, fuel, depreciation and other items, including hired power, electricity, telephone, and the farm share of the automobile, and dividing by the number of work units.

Livestock increase per worker: A financial measure of the amount of livestock produced by the average worker on a farm or group of farms.

Crop machinery investment per crop acre: A measure of the average amount of investment in crop machinery for each acre on which it is used.

Power machinery investment per crop acre: A measure of the average amount of investment in power machinery, including the farm share of automobile, for each acre of crops.

Crop acres per worker: An extensive measure of the crops handled by the average worker on a farm.

Lbs. butterfat per cow: The average amount of butterfat produced by each dairy or dual purpose cow, as determined by adding the total pounds sold and estimated amounts used in the house and fed to calves and dividing by the average number of cows in the herd, including those dry.

Per cent calf crop: The percentage which the number of beef calves raised is of the number of cows, including first calf heifers on hand at calving time. The number of pigs saved divided by the number of litters farrowed including litters from which no pigs were saved.

Per cent lamb crop: The percentage which the number of lambs raised is of the number of ewes on hand at lambing time.

Eggs per hen: The number of eggs sold plus the number used, divided by the average number of hens in the flock. Pullets are included after they have been moved to the laying house.

Table 4. Measures of Farm Organization and Management Efficiency, 1956

Farm No.	Ave of 57 farms	Ave of 15 high	Ave low	ave of 15 A	av of B	av of C	av of 4 D	av of 8 E	26 D	24 C	23 C	22 C
1. Operator's labor earnings	\$727	\$4909	\$-2905	\$ 1319	\$3548	-\$1098	\$ 206	\$1651	-\$3712	\$443	-\$403	\$3559
2. Crop yield index	100	121	88	123	82	111	90	104	84	174	79	72
3. Index of return to feed	100	128	93	93	175	139	97	104	81	93	118	258
4. Prod. livestock units / 100 A.	13.2	16.8	11.9	8.1	8.1	2.7	16.9	14.1	3.9	2.0	3.1	3.2
5. Size of business - work units	584	498	659	399	497	1146	599	558	1010	1697	702	420
6. Work units per worker	336	321	331	259	259	497	343	371	841	606	390	382
7. Power, mach. & bldg. exp./w.u.	\$9.43	\$8773	\$9.67	\$12.30	\$7.87	\$6.00	\$9005	\$8.89	\$8.51	\$3.84	\$6.00	\$9.27
Items related to some of above mea:												
Return for \$100 feed to:												
8. All productive livestock	\$140	\$179	\$130	\$131	\$245	\$195	\$135	\$147	\$113	\$130	\$165	\$362
9. Dairy cows	202	212	175	*	272	113	173	191				
10. Other dairy cattle	112	112	87				112	110				
11. Beef herd (may include a few milked)	129	179	123	75		219	124	105	*	130	166	362
12. Feeder cattle	135	166	119		121		135	148				
13. Mixed cattle	142	192	112	120	*		144	192	*			
14. Hogs	177	191	156	238			160	191				
15. Sheep	291	222	225	649			179	381				
16. Poultry	136	173	132	151	*	108	133	138		108	109	*
17. No. productive livestock units	66	81	120	156	43	295	98	66	84	382	150	92
18. Work units on crops	257	215	323	260	164	299	270	227	672	340	156	98
19. Work units on productive livestock	317	277	336	133	349	846	316	328	338	1354	545	323
20. Work units off farm	10	6	0	6	18	1.0	13	3	0	0	0	0
21. No. family workers	1.3	1.1	1.5	1.4	1.3	1.0	1.4	1.2	1.0	1.5	1.0	1.1
22. No. hired workers	4	5	.4	3	.6	1.1	3	.4	.2	1.3	.8	0
23. Total workers	1.7	1.6	1.9	1.7	1.9	2.1	1.7	1.6	1.2	2.8	1.8	1.1
24. Power & machinery exp. work unit	.92	\$7.40	\$8.46	\$10.66	\$6.86	\$4.48	\$7.66	\$6.93	\$6.01	\$3.75	\$4.97	\$5.36
25. Buildings exp. work unit	\$1.51	\$1.33	\$1.21	\$ 1.64	\$1.01	\$1.52	\$1.39	\$1.96	\$2.50	\$.09	\$1.03	\$3.91
26. Crop machinery invest. crop acre	\$86	\$13.44	\$11.38	\$ 8.60	\$9.36	\$9.04	\$11.36	\$13.87	\$4.96	\$8.02	\$11.99	\$8.70
27. Power investment / crop acre	\$9.97	\$11.75	\$11.88	\$ 8.45	\$ 7.67	\$10.80	\$10.06	\$12.38	\$4.32	\$4.32	\$17.07	\$10.81
28. Crop acres per worker	260	265	226	343	1.14	234	252	234	895	357	210	177
29. Productive livstck. units/worker	54	50	56	34	21	123	59	42	60	137	83	83
30. Livestock increase per worker	\$5849	\$7492	\$5450	\$2466	\$6145	\$9987	\$6656	\$5715	\$10492	\$6089	\$6501	\$13390
31. No dairy cows	6	10	3	3	27	2	4	12	1	2	3	0
32. No beef cows	37	17	28	18	0	126	40	23	60	310	125	69
33. No. litters pigs	5	9	6	4	2	0	9	8	0	0	0	0
34. No ewes	26	48	38	7	0	0	40	25	0	0	0	0
35. No. hens	83	155	190	66	7	17	54	278	0	25	8	35
36. Lbs. butterfat per cow	229	277	226	220	308	X	196	256	X	X	X	95
37. % calf crop	86	88	87	77	93	93	90	78	91	88	96	
38. Pigs weaned per litter	6.5	6.8	6.8	5.7	7.6		6.7	6.6				
39. % lamb crop	121	108	109	127			126	103				
40. No. eggs per hen	156	140	160	129	95	48	162	207		75	X	20
41. Feed cost per lab. butterfat	41.3	42.3	42.8	X	22.8	X	42.1	38.8	X	X	X	
42. Feed cost per cwt. pork	10.71	9.19	11.37	8.88)		11.11	10.73	*			
43. Feed cost per dozen eggs	23.2	19.2	23.5	21.5	X	18.4	24.3	23.2		X	X	*

Table 4. Measures of Farm Organization and Management Efficiency, 1956

Farm No.	27	28	29	30	31	32	33	34	35	36	37
Area No.	1	2	3	4	5	6	7	8	9	10	11
Type of farm	C	C	B	A	E	A	A	A	D	D	D
1. Operator's labor earnings	-7992	-1098	\$2421	-5554	-1606	-5599	-92	\$8029	\$3968	\$2809	-1258
2. Crop yield index	122	111	67	103	100	71	131	248	189	112	119
3. Index of return to feed	87	139	249	79	138	87	72	51	61	1107	59
4. Prod. lvstk. units / 100 A.	2.4	2.7	3.0	5.1	3.2	5.7	8.0	8.3	8.1	14.6	4.4
5. Size of business - work units	1765	1146	316	577	927	1139	541	453	497	540	484
6. Work units per worker	609	497	210	275	473	949	416	348	382	405	285
7. Power, mach., and bldg. exp./w.u.	4.88	6.00	6.34	17.77	8.69	6.19	10.34	14.54	12.94	10.01	7.03
Items related to some of above meas.											
Return for \$100 feed to:											
8. All productive livestock	121	194	350	111	193	122	100	71	86	150	83
9. Dairy cows						177					
10. Other dairy cattle											
11. Beef hers (may include a few milked)	219				219	94	91	*	91	76	
12. Feeder cattle	121	121			121					197	
13. Mixed cattle				110	110	194	235		235	197	71
14. Hogs						184	101		101	140	88
15. Sheep											48
16. Poultry											
17. No. productive lvstk. units	554	295	26	91	197	118	96	74	85	108	59
18. Work units on crops	602	299	65	494	347	669	357	350	354	303	258
19. Work units on productive lvstk.	1163	846	218	83	575	470	184	103	143	237	226
20. Work units off farm			33	0	5	0	0		0	13	0
21. No. family workers	.5	1.0	1.2	1.5	1.1	1.1	1.2	1.0	1.1	1.0	1.6
22. No. hired workers	2.4	1.1	3	6	1.2	1.1	1.1	3	2	3	1
23. Total workers	2.9	2.1	1.5	2.1	2.3	1.2	1.3	1.3	1.3	1.3	1.7
24. Power & mach. exp./work unit	\$3.84	\$4.48	\$4.73	\$14.86	\$6.22	\$5.48	\$8.49	\$13.32	\$10.90	\$7.75	\$6.10
25. Buildings exp./work unit	\$1.04	\$1.52	\$1.62	\$2.91	\$1.87	\$1.71	\$1.85	\$2.22	\$2.04	\$2.26	\$1.93
26. Crop mach. investment / crop acre	\$7.46	\$9.04	\$6.84	\$4.54	\$7.50	\$3.71	\$8.11	\$12.38	\$10.24	\$9.71	\$10.01
27. Power investment / crop acre	\$10.80	\$10.80	\$9.20	\$7.20	\$9.13	\$5.76	\$5.82	\$9.86	\$7.69	\$10.98	\$5.09
28. Crop acres per worker	193	234	58	535	346	741	440	397	418	337	133
29. Productive lvstk. units/worker	191	123	18	44	88	99	63	55	59	81	45
30. Livestock increase per worker	\$10968	\$9987	\$5167	\$3187	\$8399	\$5999	\$2674	\$5475	\$4075	\$10253	\$3989
31. No. dairy cows	2	2	19	4	4	11	0	2	1	0	9
32. No. beef cows	0	126	0	0	80	95	40	25	32	23	8
33. No. litters pigs	0	0	0	0	0	10	2	0	1	18	0
34. No. ewes	0	0	0	0	0	0	0	137	68	340	404
35. No. hens	0	17	20	60	296	64	255	24	140	0	60
36. Lbs. butterfat per cow	X	X	265	X	265	190	X	X	X	X	170
37. % calf crop		93			93	64	80	96	88	91	X
38. Pigs weaned per litter						4.5	5.5	117	5.5	6.9	73
39. % lamb crop						186	138	25	117	83	48
40. No. eggs per hen		48	95	73	66	44.8	X	X	82	X	X
41. Feed cost per lab. butterfat		X		X	X	8.42	X	X	X	X	15.27
42. Feed cost per cwt. pork		X		X	184	26.8	27.7	*	27.7	X	27.9
43. Feed cost per dozen eggs				18.4							X
											14.31
											39.7

Table 4. Measures of Farm Organization and Management Efficiency, 1956

Farm No.	39	40	av of 7/2A	av of 10/2A	7	3	2	4	6	9	11	10	5	av of 9/2B
Area No.	2A	2A	7/2A	10/2A	2B	2B	2B	2B	2B	2B	2B	2B	2B	9/2B
Type of farm	D	D	D	D	D	D	D	D	D	D	D	D	D	D
1. Operator's labor earnings	- \$1243	\$977	- \$601	\$313	\$52	- \$999	- \$324	\$240	- \$2066	\$2356	\$2082	\$840	- \$507	\$186
2. Crop yield index	61	88	79	100	73	56	56	108	97	127	130	65	125	93
3. Index of return to feed	151	97	96	88	94	89	80	86	85	106	95	93	99	92
4. Prod. livestock units / 100 A	7.7	3.9	7.6	7.4	5.7	18.5	17.0	11.2	10.3	21.5	13.2	6.2	17.4	13.4
5. Size of business in work units	1262	911	842	804	797	672	646	190	617	320	735	435	629	627
6. Work units per worker	421	434	440	479	455	298	498	190	325	266	306	334	315	331
7. Power, mach., and bldg. exp./w.u.10.35	6.39	7.59	7.54	8.53	7.54	4.93	5.46	16.90	13.15	9.88	6.94	7.75	9.59	9.12
Items related to some of above measures:														
8. All productive livestock	\$212	\$136	\$134	\$123	\$132	\$124	\$113	\$121	\$119	\$148	\$133	\$130	\$138	\$129
9. Dairy cows				177							131	127	259	172
10. Other dairy cattle											140		111	125
11. Beef herd (may incl. a few milked)	213		118	108	121	109	120	110	118		134	151	118	114
12. Feeder cattle			176	176										
13. Mixed cattle		129	138	138										
14. Hogs	198	183	152	170	234	139	109	166			142	110		150
15. Sheep			111	111	247						142		219	202
16. Poultry		147	89	107		131	101	168	120	*	111	151	214	142
17. No. productive livestock units	210	162	122	114	133	133	115	34	121	136	126	41	130	108
18. Work units on crops	651	264	408	423	346	293	353	130	428	133	302	227	217	270
19. Work units on productive livestock	610	622	390	348	451	379	293	60	190	186	433	207	412	357
20. Work units off farm	0	26	46	32	0	0	0	0	0	0	0	0	0	0
21. No. family workers	1.0	2.0	1.4	1.3	1	1.2	1.3	1.0	1.9	1.1	2.2	1.2	1.0	1.3
22. No. hired workers	2.0	.1	.5	.4	.8	1	0	0	0	.1	.2	.1	1.0	.4
23. Total workers	3.0	2.1	1.9	1.7	1.8	2.2	1.3	1.0	1.9	1.2	2.4	1.3	2.0	1.7
24. Power & mach. exp./work unit	\$8.60	\$4.89	\$6.13	\$7.00	\$5.99	\$4.53	\$5.23	\$14.40	\$11.93	\$8.32	\$5.93	\$7.28	\$8.17	\$7.97
25. Buildings exp. work unit	\$1.75	\$1.50	\$1.46	\$1.53	\$1.55	\$1.40	\$1.23	\$2.50	\$1.22	\$1.56	\$1.01	\$1.47	\$1.42	\$1.15
26. Crop mach. invest. crop acre	\$7.24	\$5.14	\$6.67	\$7.10	\$3.51	\$9.63	\$8.68	\$7.19	\$8.52	\$8.79	\$7.18	\$6.94	\$8.47	\$7.66
27. Power invest./crop acre	\$9.63	\$7.45	\$7.34	\$7.25	\$5.59	\$14.13	\$8.34	\$8.17	\$3.97	\$14.41	\$6.75	\$3.87	\$5.76	\$7.33
28. Crop acres per worker	403	251	309	374	357	167	239	277	370	163	210	238	158	248
29. P & L units per worker	69	77	65	67	76	59	88	34	64	113	53	32	65	65
30. Livestk. increase per worker	8029	8349	6316	5836	6832	6140	9611	4581	5524	6830	5606	3851	7340	5849
31. No. dairy cows	3	7	4	3	0	0	*	0	0	6	9	6	8	3
32. No. Beef cows	63	138	61	45	1.9	47	47	0	0	0	55	21	80	50
33. No. litters pigs	6	14	8	5	6	22	20	0	0	0	29	7	0	9
34. No. ewes	0	0	136	110	19	0	0	0	0	0	34	0	20	8
35. No. hens	0	191	61	59	0	597	383	74	138	150	177	161	69	193
36. Lbs butterfat per cow	X	280	192	192	100	83	X		0	179	153	193	205	182
37. % calf crop	89	96	89	86	2.7	6.6	6.6				94	100	90	92
38. Figs weaned per litter	7.3	8.5	6.6	6.1	105	204	175	230	230	160	5.7	5.4		5.2
39. % lamb crop			73	84							100		110	105
40. No. eggs per hen		208	89	99			X				142	147	196	185
41. Feed cost per lab. butterfat	X	X	X	44.8							51.0	46.1	29.2	42.1
42. Feed cost per cwt. pork	8.89	11.20	12.42	11.62	4.70	11.25	14.19	6.23			18.70	13.51	29.2	42.1
43. Feed cost per dozen eggs		24.8	30.8	29.4		22.7	26.5	14.8	23.5	*	33.9	22.1	13.7	22.4

Table 4. Measures of Farm Organization and Management Efficiency, 1956

Farm No.	1	12	13	av of	8	av of	51	54	av of	52	53	av of	61
Area No.	2B	2B	2B	2B	2B	13/2B	3A	3A	2/3A	3A	3A	2/3A	3B
Type of farm	E	A	A	A	B	ALL	D	D	D	A	A	A	E
1. Operator's labor earnings	\$1897	\$3114	\$1342	\$2228	\$1003	\$694	\$3619	\$5776	\$1079	\$6448	\$364	\$2242	\$4014
2. Crop yield index	137	130	127	128	69	100	118	104	111	84	94	89	148
3. Index of return to feed	121	85	138	111	140	101	81	127	105	101	101	86	97
4. Prod. lvstk units /100 A.	9.5	6.4	8.0	7.2	12.9	12.1	11.3	12.3	11.8	0	18.6	9.3	17.5
5. Size of business—work units	432	494	400	447	454	578	482	600	541	410	465	437	900
6. Work units per worker	266	395	182	288	273	316	193	300	246	372	214	293	360
7. Power, mach. and bldg. exp./w.u	5.39	7.23	10.47	8.85	10.34	8.89	9.72	4.23	6.58	10.46	10.32	10.39	9.22
Items related to some of above meas:													
Return for \$100 feed to:													
8. All productive livestock	\$169	\$119	\$193	\$156	\$196	\$141	\$114	\$179	\$147	\$	\$141	\$145	\$136
9. Dairy cows					325	210							
10. Other dairy cattle					*	125	105	105	105	137	137	121	*
11. Beef herd (may incl. a few milked)						114							*
12. Feeder cattle	192					192	142	192	192			192	
13. Mixed cattle	165				*	152	104	186	164			164	
14. Hogs	621					314	104	104	104			104	
15. Sheep	126					140	163	135	149			167	
16. Poultry										202	202		183
17. No. productive lvstk. units	42	59	54	56	45	77	93	77	85	0	156	78	122
18. Work units on crops	186	276	245	261	191	256	178	288	233	410	308	359	325
19. Work units on productive lvstk.	246	218	150	184	363	322	304	311	307	0	156	78	575
20. Work units off farm	0	0	4	2	0	33	0	0	0	0	1	5	0
21. No. family workers	1.3	1.0	1.4	1.2	1.7	1.4	2.4	2.0	2.2	1.0	1.5	1.3	1.1
22. No. hired workers	2	2.2	2.8	1.6	0	3	1	0	1	1.1	2	1	1.1
23. Total workers	1.5	1.2	2.2	1.8	1.7	1.7	2.5	2.0	2.3	1.1	1.7	1.4	2.5
24. Power & mach. exp./work unit	\$4.60	\$6.16	\$9.32	\$7.74	\$9.98	\$7.22	\$8.81	\$3.91	\$5.96	\$9.95	\$8.97	\$9.46	\$7.80
25. Buildings exp. work unit	\$2.79	\$1.07	\$1.15	\$1.11	\$0.90	\$1.10	\$0.91	\$0.32	\$0.62	\$0.51	\$1.35	\$0.93	\$1.42
26. Crop mach. invest. crop acre	\$2.76	\$3.46	\$15.18	\$9.32	\$9.44	\$7.68	\$15.18	\$5.19	\$10.48	\$4.68	\$7.33	\$6.00	\$10.52
27. Lower invest. / crop acre	\$2.92	\$3.73	\$6.20	\$4.96	\$2.40	\$6.25	\$9.81	\$2.18	\$6.00	\$1.52	\$5.40	\$3.46	\$8.10
28. Crop acres per worker	204	507	194	351	152	253	133	251	192	884	379	632	225
29. P. & L. units per worker	28	47	24	36	22	54	37	39	38	0	92	46	49
30. Livestock incr. per worker	3258	4239	1537	2888	6778	5266	3825	5318	4571	0	1302	651	7769
31. No. Dairy cows	17	3	1	2	21	5	0	6	3	0	2	1	19
32. No. beef cows	0	44	34	39	0	41	45	25	35	0	31	16	31
33. No. Litters pigs	3	17	0	8	5	8	0	14	7	0	0	0	19
34. No. ewes	12	0	0	0	0	7	62	0	31	0	0	0	0
35. No. hens	48	0	0	64	0	148	240	390	315	0	50	25	613
36. Lbs. butterfat per cow	133	X	X	X	350	202	84	241	241	X	X	X	310
37. % calf crop		98	38	68	85	85	84	87	86	90	90	65	84
38. Pigs weaned per litter	7.7	5.3		5.3	7.6	5.8		7.8	7.8			7.8	5.6
39. % lamb crop	142					117	124	124	124			124	
40. No. eggs per hen	264		150	150	35.7	190	153	273	213		195	193	243
41. Feed cost per lab. butterfat	X	X	X	X	*	40.5	X	X	X			X	*
42. Feed cost per cwt. pork	13.70	*		13.70		11.75	X	8.41	3.41			8.41	*
43. Feed cost per dozen eggs	34.3		*	34.3		23.9	22.7	22.7	22.7		11.8	11.8	16.7

Table 4. Measures of Farm Organization and Management Efficiency, 1956

Farm No.	64	av of	63	62	av of	73	71	72	75	av of	74	76	av of	85	88
Area no.	3B	2/3B	3B	3B	4/3B	4A	4A	4A	4A	4/4A	4A	4A	9/4A	4B	4B
Type of farm	E	E	D	A	ALL	E	D	D	D	D	A	B	ALL	A	A
1. Operator's labor earnings	\$86	\$1964	\$4421	\$1458	\$241	\$5522	\$4710	\$511	\$1993	\$2064	\$349	\$7219	\$3097	\$173	\$1606
2. Crop yield index	80	114	74	98	100	118	96	79	68	81	128	110	100	72	79
3. Index of return to feed	93	95	97	93	95	120	110	114	109	111	13	136	100	111	162
4. Prod. lvstk. units/100A	14.6	16.0	13.9	7.6	13.4	19.8	15.7	27.5	16.9	20.0	9.9	11.4	16.8	79.0	13.2
5. Size of busi.-work units	390	645	838	396	631	454	445	385	261	364	262	722	422	148	300
6. Work units per worker	300	330	399	330	347	402	223	276	157	219	170	294	253	133	100
7. Power, mach. and bldg. exp/w.u.13.51	11.37	8.24	8.24	9.52	10.12	5.01	7.01	10.53	11.85	9.80	16.15	6.37	9.49	12.99	16.53
Item related to some of above measures:															
Return for \$100 feed to:															
8. All productive lvstk.	\$131	\$133	\$136	\$130	\$133	\$168	\$154	\$160	\$152	\$155	\$18	\$191	\$140	\$155	\$227
9. Dairy cows						205						219	212		
10. Other dairy cattle						110					2	113	112		
11. Beef herd	117	117	124		119		114		158	114			56		154
12. Feeder cattle				96	96		134	*		146			146		236
13. Mixed cattle			212	172	192	213	206		127	167	396		235	153	483
14. Hogs						142							147	815	181
15. Sheep				167	181	171	204	*	125	165	109		152	102	
16. Poultry	172	177	183												
17. No. productive lvstk units	51	86	138	30	85	58	92	56	54	67	30	59	58	12	39
18. Work units on crops	143	234	410	216	274	101	184	102	159	148	162	236	137	64	121
19. Work units on productive lvstk	212	394	428	180	349	345	261	284	95	213	100	466	258	39	179
20. Work units off farm	35	17	0	9	9	8	1	0	7	3	0	20	6	45	0
21. No. family workers	1.3	1.2	1.8	1.0	1.4	1.1	1.3	1.3	1.0	1.2	1.7	1.0	1.0	1.0	3.0
22. No. hired workers	0	.7	.3	.2	.3	0	.7	.1	.7	.5	0	1.5	1.1	.1	0
23. Total workers	1.3	1.9	2.1	1.2	1.7	1.1	2.0	1.4	1.7	1.7	1.7	2.5	1.7	1.1	3.0
24. Power & mach. exp/work unit	\$6.94	\$7.37	\$7.87	\$8.47	\$7.77	\$4.11	\$5.03	\$8.83	\$10.11	\$7.99	\$14.24	\$5.87	\$8.03	\$11.85	\$13.09
25. Buildings exp. work unit	\$6.57	\$4.00	\$.37	\$1.05	\$2.35	\$.90	\$1.98	\$1.70	\$1.74	\$1.81	\$1.91	\$.50	\$1.46	\$1.14	\$3.44
26. Crop mach. invest. crop acre	\$13.44	\$11.98	\$10.71	\$8.08	\$10.69	\$16.23	\$18.56	\$16.44	\$4.47	\$13.16	\$10.64	\$11.79	\$13.03	\$3.26	\$12.62
27. Power investment/crop acre	\$11.84	\$9.97	\$11.14	\$7.12	\$9.55	\$7.50	\$6.63	\$13.80	\$4.15	\$8.19	\$4.55	\$11.41	\$8.05	\$9.16	\$20.06
28. Crop acres per worker	180	202	224	286	229	112	150	116	233	166	150	134	149	124	95
29. P & F units per worker	31	40	66	25	43	52	46	40	32	39	18	24	35	11	13
30. Lvstk increase per worker	5038	6404	5604	3765	5544	8275	4915	6007	3697	4878	271	6491	4943	1699	3111
31. No. dairy cows	0	10	0	8	7	16	2	9	0	8	1	40	14	0	5
32. No. beef cows	36	34	93	0	40	0	37	13	0	17	42	0	13	0	0
33. No. litters pigs	0	10	3	11	12	0	24	0	0	8	0	0	5	6	16
34. No. ewes	0	0	0	0	0	128	0	0	0	0	0	0	21	10	29
35. No. hens	338	476	143	251	336	420	45	287	0	111	24	0	129	100	138
36. Lb. butter fat per cow	89	310	94	271	284	233	X	X		X	X	309	271	160	
37. % calf crop		86		89	89		68	X		68	59		64		
38. Pigs weanee per litter		5.6	7.7	3.9	5.7	8.0	5.2			5.2			6.6	5.7	8.5
39. % lamb crop						67							6.6	120	134
40. No eggs per hen	218	230	137	164	190	226	170	208		189	60	49.8	166	138	184
41. Feed cost per lb. butterfat		*	*	X	*	34.8	X	X			X		42.3	8.42	X
42. Feed cost per cwt. pork			11.58	9.79	10.68	10.07	7.74		11.95	9.84	3.91		8.42	9.32	6.95
43. Feed cost per dozen eggs	20.7	18.7	18.6	15.8	18.0	18.8	18.8	*	27.4	23.1	12.5		19.4	34.5	17.1

Table 4. Measures of Farm Organization and Management Efficiency, 1956

Farm No.	92	av of 3 AB	81	84	89	av of 3 AB	80	82	83	86	87	90	91	av of 3 AB	13 AB
Area No.	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Type of farm	A	A	E	E	E	E	D	D	D	D	D	D	D	D	ALL
1. Operator's labor earnings	\$2847	\$356	\$1595	\$5099	\$1041	\$821	\$649	\$1023	\$431	\$3218	\$1710	\$194	\$8884	\$1212	\$924
2. Crop yield index	18.2	111	101	150	30	93	73	160	96	100	28	136	92	97	100
3. Index of ret. to feed	11.6	130	88	119	112	106	103	65	113	112	95	86	104	97	126
4. Prod. lvstk units / 100 a	11.6	8.5	14.3	22.4	9.4	15.3	25.8	33.5	31.5	31.2	24.1	12.2	74.6	33.3	26.0
5. Size of business-work units	347	265	434	521	194	383	342	325	220	256	320	353	599	345	335
6. Work units per worker	173	137	241	260	194	232	263	186	176	256	188	353	428	264	227
7. Power, mach. and bldg. exp/w.u.0.28	13.27	13.27	9.67	8.59	13.59	10.62	12.99	9.84	13.68	11.23	7.66	10.23	11.26	11.00	11.55
Items related to some of a bove measurea:															
Return for \$100 feed to:															
8. All productive lvstk.	\$162	\$182	\$124	\$167	\$156	\$149	\$145	\$91	\$158	\$158	\$134	\$121	\$146	\$136	\$177
9. Dairy cows	*	*	*	*	*	*	*	*	*	165	87	*	*	175	175
10. Other dairy cattle	*	*	*	*	148	*	*	*	118	165	90	*	*	165	165
11. Beef herd	*	*	*	*	148	*	*	*	118	165	90	*	*	165	165
12. Feeder cattle	*	*	*	*	148	*	*	*	118	165	90	*	*	165	165
13. Mixed cattle	*	154	195	*	148	*	115	*	169	150	142	*	*	115	134
14. Hogs	*	649	649	*	158	*	199	*	169	385	142	*	*	165	175
15. Sheep	*	141	108	*	158	*	135	*	169	385	98	*	*	385	561
16. Poultry	*	141	108	*	158	*	135	*	169	385	98	*	*	117	130
17. No. productive lvstk units	30	27	56	67	17	46	55	83	58	45	36	35	222	76	58
18. Work units on crops	135	107	187	126	78	128	90	107	90	80	79	136	252	119	118
19. Work units on productive lvstk	212	143	252	395	117	255	232	219	114	148	251	216	347	217	208
20. Work units off farm	0	15	0	3	0	1	20	0	15	27	0	0	0	9	8
21. No. family workers	1.0	1.7	1.8	1.0	1.0	1.3	1.3	1.5	.8	1.0	1.6	1.0	1.0	1.2	1.3
22. No. hired workers	1.0	.3	0	1.0	0	.3	0	.2	.4	0	.1	0	.4	.1	.2
23. Total workers	2.0	2.0	1.8	2.0	1.0	1.6	1.3	1.7	1.2	1.0	1.7	1.0	1.4	1.3	1.5
24. Power & mach. exp/work unit	\$9.25	\$11.40	\$8.50	\$7.69	\$10.37	\$8.85	\$8.94	\$8.70	\$12.25	\$9.90	\$6.33	\$8.82	\$10.22	\$9.32	\$9.81
25. Buildings exp. work unit	\$1.03	\$1.87	\$1.17	\$1.90	\$3.22	\$1.77	\$4.05	\$1.14	\$1.43	\$1.33	\$1.33	\$1.41	\$1.04	\$1.68	\$1.74
26. Crop mach. invest. crop acre	\$12.98	\$9.62	\$12.74	\$30.60	\$20.93	\$21.42	\$18.00	\$9.49	\$26.77	\$33.22	\$26.76	\$18.08	\$16.74	\$21.29	\$18.63
27. Power invest. /crop acre	\$21.11	\$16.78	\$13.06	\$19.50	\$30.39	\$20.98	\$19.47	\$14.04	\$14.97	\$44.38	\$15.08	\$14.86	\$9.66	\$18.92	\$18.90
28. Crop acres per worker	128	115	153	90	171	138	131	96	115	144	76	264	328	165	447
29. P & L units per worker	15	13	31	33	17	27	42	47	46	45	21	36	159	57	39
30. Lvstk. increase per worker	2328	2379	3864	7655	3859	5126	6965	4006	8340	10890	5176	7342	20217	8992	6374
31. No. dairy cows	9	5	10	27	0	12	6	0	0	0	7	1	2	2	5
32. No. beef cows	0	0	17	0	0	6	2	28	0	13	0	30	0	7	7
33. No. litters pigs	0	7	0	23	0	8	20	16	23	22	14	9	0	15	11
34. No. ewes	20	20	44	15	0	20	0	31	0	13	0	0	72	16	17
35. No. hens	450	229	195	40	510	248	154	385	0	0	288	75	203	158	195
36. Lbs. butterfat per cow	229	194	365	304	334	334	159	96	96	92	252	X	X	206	245
37. % calf crop			76	76	76	76	X	96	10.0	8.7	10.5	93	X	94	89
38. Pigs weaned per litter			7.1	7.0	7.0	7.0	7.6	3.4	10.0	8.7	10.5	7.3	*	7.9	7.6
39. % lamb crop	135	130	100	100	100	100	146	116	165	146	129	217	*	131	122
40. No. eggs per hen	163	163	217	63	252	177	220	165	165	146	129	217	122	170	170
41. Feed cost per lb. butterfat	*	*	*	*	*	*	X	9.95	10.55	10.30	42.8	X	X	X	42.8
42. Feed cost per cwt. pork	*	8.14	24.2	*	20.6	22.4	9.81	10.30	10.30	10.30	29.8	*	*	10.15	9.48
43. Feed cost per dozen eggs	*	25.8	24.2	*	20.6	22.4	25.1	9.81	10.30	10.30	29.8	*	*	27.4	25.2

MEASURES OF FARM ORGANIZATION AND MANAGEMENT EFFICIENCY

There are seven major management factors usually considered to cause variations in earnings among farmers within a given year. These factors are (1) crop yields, (2) choice of crops, (3) returns from livestock, (4) amount of livestock, (5) size of business, (6) work accomplishment per worker, and (7) control over expenses. In this study no attempt was made to compare (2) "choice of crops," because of a lack of basic information as to the ranking of crops in South Dakota and the great variation over the state. The other six factors, however, are represented by items (2) through (7) in Table 4. While there was considerable variation, there was a definite difference in income in accord with the number of factors in which a farmer excelled as follows:

Relation of Operator's Labor earnings to the number of factors in which the farmer excels.

No. of factors in which farmer excels	No. of farms	Average labor earnings
1	11	-\$303
2	18	228
3	15	908
4	12	1797
5	1	5522

A farmer excelling in all six would have higher than average crop yield and return to \$100 of feed, more than the average amount of livestock per 100 acres, more than the average number of work units and work units per worker, and lower than average building and machinery expense per acre.

The effects of the level of crop yields and the level of return to productive livestock were more obvious than those of any other measure of efficiency. Indices of crop yields, based on averages for the respective areas, averaged 121 for the 15 farms and ranches with highest operator's labor earnings, while the figure was 88 for the 15 low units. The average return for \$100 of feed, including pasture, to productive livestock, was \$179.39 for the high group and \$129.71 for the low,

as compared to a state average of \$140.13. Table 4 also includes other related measures of size and efficiency of operations.

There were no great differences between the high and low income groups as to such items as building and machinery expense per work unit, or power and machinery investment per crop acre, due to the fact that these items were overshadowed by the difference in returns to crops and livestock.

The high 15 farms were in general smaller, with lower investments, fewer work units, fewer productive livestock units, and fewer workers. They had fewer beef cattle and chickens, but more dairy cattle, hogs, and sheep. This is logical in view of the fact that the highest returns to feed were to be found in the latter classes of livestock. They also sold more crops, which is related to the fact that they had better yields.

There were no significant differences in work units per worker, crop acres per worker or livestock units per worker, but the livestock increase per worker was decidedly higher for the top group-\$7492 as compared to \$5450 for the low. The high income group also averaged 16.8 productive livestock units per 100 acres, as compared with 11.9 for the low group.

Highest incomes were found in Area 4A, the Northeastern area, which received more rainfall than the other areas.

It may seem odd that the smaller farms had larger earnings. This seemingly paradoxical result is due at least in part to the fact that crop yields in 1956 were below normal, especially in the areas where the large units were located. Not only were many of the larger units harder hit by the drouth, but also with more labor receiving actual or imputed wages and more capital assigned interest at 5%, a drop in income was much more apt to result in low or negative labor earnings for the operator than would be the case on a smaller farm. Low farm prices and high costs are also harder on the large farmer.

The question might be raised as to how the operators with negative earnings managed to survive. There are two keys to this situation:

1. In addition to operator's labor earnings there were the items of "unpaid-family labor" and "interest on capital." The operator received all of the former and part of the latter. On the 15 farms with lowest earnings, averaging minus \$2905, the averages of these two items were large enough to bring the average return to capital and family labor to \$3066.

2. On many of the units a large part of the operating loss was in the form of inventory decrease rather than cash paid out. On the low 15 farms, an average of \$2455 was therefore available for use in addition to the \$3066, making a total of \$5521, the average amount available to the farmer and his landlord for interest, principal payments, and family living.

This was actually not much less than the \$6047 available on the high 15 units, where, on the average, \$2200 of the \$8248 was tied up in increases in inventories. So to a great extent the difference in returns on the high and low farms were to be found in inventory changes. Low income farmers spent an average of \$925 less for new machinery and equipment than did the high groups, and also found their lower crop yields reflected in lower year-ending inventories.

Table 5. Distribution of Acres in Farm, 1956

Farm No.	Ave of 57 farms	Ave of 12 farms	Ave of 3 of 3	Ave of 4 of 3	Ave of 30 of 8	av of 8	26	24	23	22	27	av of 4	25	21
Area No.	of 57 farms	of 12 farms	of 3 of 3	of 4 of 3	of 30 of 8	av of 8	D	C	C	C	C	C	B	A
Type of farm														
Corn for grain	68	64	24	81	76	90								
Corn and cane silage	20	4	32	29	18	60								
Corn and cane fodder	6	9		5	2									
Grain sorghum	9	21		8		100			50			13	12	
Soybeans for grain	7	16	14	3	11									
Other row crops	1			2	1									
Total row crops	111	111	70	130	107	250			50			13	12	
Winter wheat	12	36		7										
Spring wheat (inc. durum)	45	95	24	40	26	141			73			18		
Oats (inc. hay)	77	69	37	84	85	255								
Barley	12	26	9	9	7	258			55		140	60		657
Rye	22				1							5		80
Flax	13	19	13	10	20									
Mixed grain crops	1			2	3									
Other grain crops	6	5	3	7					25			6		
Total small grain	176	270	111	161	161	654		65	153		140	90	75	737
Alfalfa hay	86	81	27	82	56	110		512	50		420	246		252
Sweet clover hay	1		3	2	1					195		49		
Mixed legume hay	5	2		3	7									
Annual hay (intended)	1		3											
Other tame hay	3	3	7	5										
Total tame hay	97	85	65	93	67	110		512	50		420	246	75	252
Alfalfa pasture	4		18	4	10									
Other legume pasture	3	13			1									
Other rotation pasture	8	4		4				278				70		
Total rotation pasture	13	5	18	8	12			278				70		
Total hay and pasture	13	90	83	98	79	110		790	50		420	315	75	252
Idle and fallow	25	50	4	156	31	60		498	125			156		140
Total tillable land	431	521	245	573	361	1074		1353	378		560	572	87	1129
Native hay	87	27	91	211	69	460		145			700	211	90	
Permanent pasture	364	166	244	403	167	776		17597	4518	4580	19332	1151	693	650
Farmstead and waste	67	38	7	585	22	20		25		25	2288	585	10	40
Total acres operated	1551	751	592	12767	620	2320		19120	4896	4800	22880	12767	880	1819
Per cent of land tillable	58	76.1	53.0	56.2	67.0	46.3		7.1	7.7	0	2.4	4.3	10	62
% of tillable in row crops	31	31.6	25.3	34.4	33.0	23.2		0	13.2	0		3.3	14	0
% of tillable in small grains	37	46.2	26.7	36.7	38.2	60.9		4.8	40	0	25	17.4	0	65
% of tillable in hay-pasture	26	17.6	48.0	26.2	21.8	10.2		58.4	13	4	75	37.6	85	22
Value of crops produced (not including pasture)	7499	9943	5543	7220	6740	10583		15240	2175	2179	9325	7230	1120	10917

Table 5. Distribution of Acres in Farm, 1956

Farm No.	Area No.	Type of farm	Av of 7/1 all	31 2A E	33 2A A	38 2A A	av of 2/2A A	32 2A D	34 2A D	35 2A D	36 2A D	37 2A D	39 2A D	40 2A D	av of 7/2A D	av of 10/2A ALL
Corn for grain	13		60	5	105	55	99	58			30	110	140	44	69	65
Corn and cane silage	10		60					42		240		20	80	41	60	48
Corn and cane fodder	7				30	15				100	41	25		24	18	15
Grain sorghum										80					9	7
Soybeans for grain															1	1
Other row crops	45	120		5	135	70	99	100	420	71	155	220	109	168	143	
Total row crops																
Winter wheat	31							40					30		10	7
Spring wheat (inc. durum)	130	157	202	127	165	165	134	52	40	98	15	195	65	59	90	
Oats (inc. hay)	83	186	165	70	116					52	225	296	124	155	151	
Barley	3									90				13	9	
Rye																
Flax																
Mixed grain	4														5	4
Other grain crops	261	497	367	197	282	170	36	92	242	240	240	521	189	242	276	
Total small grain																
Alfalfa hay	192	187	200	200	200	180	35	35	29	65	22	228	230	113	138	
Sweet clover hay																
Mixed legume hay	28	50														
Annual hay (intended)																
Other tame hay																
Total tame hay	261	237	200	200	200	180	35	35	29	119	22	288	230	129	154	
Alfalfa pasture																
Other legume pasture																
Other rotation pasture	40															
Total rotation pasture	40															
Total hay and pasture	242	237	200	200	200	180	35	35	29	119	22	468	230	154	148	
Idle and fallow	118	189								94					21	28
Total tillable land	655	889	572	532	552	449	227	227	741	524	417	1209	528	585	609	
Native hay	199	450	125	100	113	120	320	710			180	100	26	209	213	
Permanent pasture	960	711	390	253	322	185	793	2005		528	653	1409	1600	1033	858	
Farmstead and waste	344	30	113	15	64	30	20	50		39	30	82	10	37	42	
Total acres operated	8013	2080	1200	900	1050	774	1369	3506		1091	1280	2800	2164	1854	1716	
Per cent of land tillable	19.4	43	47	59	53	58	17	21	21	48	33	43	24	34.9	39.3	
% of tillable in row crops	7.2	13	1	44	22.5	22	44	57	57	14	37	18	21	30.4	27.1	
% of tillable in small grains	27.9	56	64	37	50.5	38	41	33	33	46	58	43	36	42.1	45.2	
% of tillable in hay & pasture	38.4	27	35	38	36.5	40	15	4	4	23	5	39	44	24.3	27	
Value of crops produced (not including pasture)	7363	9263	9818	23101	16459	8220	6579	6763	6763	2138	6235	8533	6501	6424	8715	

Table 5. Distribution of Acres in Farm, 1956

Farm No. Area No. Type of farm	7		3		2		4		6		9		11		10		5		av of		1		12		13		av of	
	2B	D	2B	D	2B	D	2B	D	2B	D	2B	D	2B	D	2B	D	2B	D	9/2B	D	2B	D	2B	D	2B	D	2/2B	D
Corn for grain	12	116	116	14	200	58	120	97	69	89	12	101	23	62														
Corn and cane silage	26	66	66	10	40	38	30	8	25	34	12		15	8														
Corn and cane fodder																												
Grain sorghum	10	12	12					7		1			5	3														
Soybeans for grain										3																		
Other row crops										1																		
Total row crops	48	192	192	24	240	96	150	112	94	128	30	101	68	85														
Winter wheat																												
Spring wheat (inc. durum)	88	20	20	28	176		55	64		50	42	160	40	100														
Oats (inc. hay)	29	138	138	34	95	44	100	110	30	80	64	98	32	65														
Barley	20			30			60			12	12	80	40	60														
Rye	13									1	10																	
Flax	41			24					25	8	22		112	56														
Mixed grain																												
Other grain crops				26	110			10		16	17		20	10														
Total small grain	191	158	158	142	381	44	215	184	55	169	167	338	244	291														
Alfalfa hay	207	26	26	65	55	56	100	14	167	80	40	60	75	68														
Sweet clover hay																												
Mixed legume hay																												
Annual hay (intended)	13																											
Other tame hay																												
Total tame hay	220	26	26	65	55	56	140	14	167	85	40	60	190	80														
Alfalfa pasture																												
Other legume pasture																												
Other rotation pasture																												
Total rotation pasture																												
Total hay and pasture	220	26	26	65	55	56	140	14	167	85	40	75	100	88														
Idle and fallow	167			30	28																							
Total tillable land	626	376	376	261	704	196	505	310	316	408	307	634	427	531														
Native hay	200	100	100		260			110	40	90	44		43	22														
Permanent pasture	514	199	199	46	216	435	450	340	391	310	157	281	203	242														
Farmstead and waste	60	26	25	13	60	29	5	20	13	28	10	45	97	71														
Total acres operated	1400	700	700	320	1240	660	960	780	760	836	518	960	770	865														
Per cent of land tillable	45	54	54	82	57	30	53	40	42	51	59	66	55	61														
% of tillable in row crops	15	51	51	9	34	49	30	36	30	34	10	16	16	16														
% of tillable in small grains	50	42	42	54	54	23	43	60	17	43	54	53	57	55														
% of tillable in hay pasture	35	7	7	36	8	29	28	4	53	23	13	18	25	119														
Value of crops produced (not including pasture)	6976	4757	4757	4185	13577	6481	11155	6078	9083	7449	4773	7473	8745	8109														

Table 5. Distribution of Acres in Farms, 1956

Farm No.	8	av of	51	54	av of	52	53	av of	61	64	av of	63	62	
Area No.	2B	2B 13	3A	3A	2 3A	3A	3A	2 3A	3B	3B	2 3B	3B	3B	
Type of farm	B	ALL	D	D	D	A	A	A	F	F	F	D	A	
Corn for grain	71	78	2 4	117	71	131	66	68	166	44	105	269	149	
Corn and cane silage	40	29	13	13	8			4	26	14	20		10	
Corn and cane fodder		1	18	18	9	180	120	5		15	8			
Grain sorghum		2						60						
Soybeans for grain		3												
Other row crops														
Total row crops	111	112	24	148	86	180	186	138	192	73	133	269	159	
Winter wheat														
Spring wheat (inoc durum)	37	56	8	42	25	404	215	108						
Oats (inc. hay)	70	76	72	53	63	76	70	55	6	3				
Barley		19				124	38	50	158	61	110		162	
Rye		2					90	45	30		15			
Flax		14							100		50			
Mixed grain		15		70	35			18						
Other grain crops	10	15		11	6			8						
Total small grain	117	184	80	176	128	603	444	286	294	61	178		163	
Alfalfa hay	55	73	202	58	130	40	20	75	60	57	58	94	22	
Sweet clover hay	10	1		40	20			10						
Mixed legume hay		2												
Annual hay (intended)	10	1												
Other tame hay		3		9	5			3		10	5	83		
Total tame hay	75	80	292	107	154	40	20	87	60	67	64	177	22	
Alfalfa pasture		1							4	33	19			
Other legume pasture				71	36			18						
Other rotation pasture		1		71	36			18	4			45	45	
Total rotation pasture														
Total hay and pasture	75	81	202	178	190	40	20	105	64	100	82	222	22	
Idle and fallow	13	33	28		14	190	160	87	13					
Total tillable land	316	411	334	502	418	973	809	614	563	234	399	491	343	
Native hay		69		20	10									
Permanent pasture	50	268	490	108	299	160	80	189	144	33	17	180	20	
Farmstead and waste	4	31	5	37	21	17	29	25	54	82	113	320	35	
Total acres operated	370	780	829	667	748	990	935	842	761	16	35	20	2	
Per cent of land tillable	85	55.6	40	75	57.5	98	80	89	73.2	64	69	49	86	
% of tillable in row crops	35	29.4	7	25	16	19	30	24.5	20.2	21	27.5	55	46	
% of tillable in small grains	37	45.1	24	35	29.5	62	44	53	41.2	26	39	0	47	
% of tillable in hay & pasture	28	21.9	60	35	47.5	6	6	3	25.2	43	27.5	45	7	
Value of crops produced (not including pasture)	4812	7142	4796	7309	6053	16141	10179	13160	9607	18215	4461	11338	8287	7072

Table 5. Distribution of Acres in Farm, 1956

Farm No.	av of 4	73	71	72	75	av of 4	74	76	av of 6	85	88	92	av of 3
Area No.	3B	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A	4A
Type of farm	all	E	D	D	D	D	A	B	ALL	A	A	A	A
Corn for grain	157	23	113	20	28	54	77		39	5	26	72	34
Corn and cane silage	13	15		15		5		45	28	7	15		7
Corn and cane fodder	4		10			3				50	20		23
Grain sorghum											7		2
Soybeans for grain	7			7	52	20	14	43	29	28	68	55	50
Other row crops													
Total row crops	173	45	123	42	80	82	91	88	90	90	184	127	134
Winter wheat													
Spring wheat	2		30			10		35	18				
Oats (inc. hay)	95	29	65	14		26	40	40	40	33		71	35
Barley	8	14		20	40	20		28	14	14			5
Rye													
Flax	25	39	16		113	43	105	40	73		9		3
Mixed grain													
Other grain crops													
Total small grain	129	82	112	34	153	100	145	143	144	47	19	16	12
Alfalfa hay	58	43	59	87	62	69	65	25	45		28	87	54
Sweet clover hay											36	17	18
Mixed legume hay	21												
Annual hay (intended)	3												
Other tame hay			6	87	62	71	65	20	10		28	3	10
Total tame hay	82	43	65					45	55		64	20	28
Alfalfa pasture	9				25	8		55	28				
Other legume pasture													
Other rotation pasture	10												
Total rotation pasture	21				25	8		55	28		20	23	14
Total hay and pasture	102	43	65	87	87	80	65	100	83		84	43	42
Idle and fallow													
Total tillable land	408	170	300	163	320	261	301	331	316	137	296	257	230
Native hay	58												
Permanent pasture	145	125	170	42		71		183	92				
Farmstead and waste	23	25	30	28		19	19	7	13	11	24	3	5
Total acres operated	634	320	500	233	320	351	320	525	423	160	320	295	258
Per cent of land tillable	68.2	53	60	70	100	76.7	94	64	79	86	92	87	88.7
% of tillable in row crops	39	27	41	26	25	30.7	30	27	28.5	66	62	50	59.3
% of tillable in small grains	31.2	48	37	21	47	35	48	43	45.5	34	10	34	26
% of tillable in hay and pasture	26.8	25	22	53	17	20.7	22	30	26	28	28	16	14.7
Value of crops produced (not including pasture)	9509	6511	8760	3917	6474	6383	11959	10696	11328	663	4864	8383	4637

Table 5. Distribution of Acres in Farm, 1956

Farm No.	81	84	89	80	82	83	86	87	90	91	av of 7	av of 7
Area No.	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B	4B
Type of farm	E	E	E	D	D	D	D	D	D	D	D	ALL
Corn for grain	137	74	88	100	45	72	46	53	83	125	68	88
Corn and cane silage	14	5		6	16	15				15	7	7
Corn and cane fodder		2		1								6
Grain sprghum	15	19	37	24				10		40	7	4
Soybeans for grain		6		2			37	18			3	21
Other row crops	166	106	125	132	61	87	83	81	83	180	5	3
Total row crops											90	109
Winter wheat												
Spring wheat												
Oats (inc. hay)	76	73	35	61	36	60	12	28	56	30	38	42
Barley												1
Rye												
Flax									32	59	13	8
Mixed grain												
Other grain crops	4	73	35	63	36	60	17	14	88	89	4	5
Total small grain	80						29	42	42		55	57
Alfalfa hay	30	50	11	20	15	8	30	12	57	115	39	30
Sweet clover hay				10		6					1	3
Mixed legume hay						7						1
Annual hay (intended)												
Other tame hay	30	50	11	30	15	21	30	12	57	143	44	4
Total tame hay												37
Alfalfa pasture		46		15	8		2		36	50	14	12
Other legume pasture		10		3								1
Other rotation pasture		56		19	8		2	9	36	50	1	4
Total rotation pasture											15	16
Total hay and pasture	30	106	11	49	23	21	32	21	93	190	59	53
Idle and fallow												
Total tillable land	276	279	171	242	171	168	144	144	264	459	211	223
Native hay	22	2		8	40						6	5
Permanent pasture	93	10	12	38	80	80	40		25	6	24	23
Farmsteads and waste	6	19	17	14	9	27	16	56	23	15	22	20
Total acres operated	397	316	200	304	220	275	200	200	312	480	264	272
Per cent of land tillable	70	88	85	81	78	61	72	72	85	96	77.8	81.0
% of tillable in row crops	60	37	62	53	36	52	58	56	31	39	44.6	46.5
% of tillable in small grains	29	24	17	23.3	21	36	20	29	33	19	28.1	26.5
% of tillable in hay and pasture	11	38	5	18	13	13	22	15	35	41	23.8	20.4
Value of crops produced (not including pasture)	7286	8940	948	5725	1973	7606	3233	4036	6945	13672	5724	5493

Table 6. Crop yields per acre, 1956

Dist. No.	Farm No.	Farm type	State av.	1	24	23	22	27	25	21	1	2A	2A
			All	D	C	C	C	C	B	A	All av.	31	33
			No. yield								No. yield	E	A
Corn, bu.			(47) 31	13							(1) 13	10.	30.
Corn & cane silage, T			(33) 2.5	8.3							(2) 4.2	1.7	
Corn & cane fodder, T			(8) 3.2								(1) 1.0		
Grain sorghum, bu.			(11) 21	10							(1) 10		
Soybeans, bu.			(13) 13										
Winter wheat, bu.			(4) 6								(2) 1		
Spring wheat, bu.			(24) 7	2							(2) 4.	7	11.
Durum wheat, bu.			(3) 9										
Oats, bu.			(34) 18.								(1) 4.	16	16
Barley, bu.			(14) 17.										
Rye, bu.			(1) 20.										
Flax, bu.			(14) 7										
Oat hay, T			(19) 0.5	0.4	0.6	0.7		0.3			(4) 0.9	0.6	
Millet, bu.			(5) 17										
Oat silage, T			(2) 3.7										
Alfalfa hay, T			(52) 1.4	0.6	3.9**	1.2	0.6	0.7	0.6	0.3	(6) 1.1***	0.2	0.6
Sweet clover, hay, T			(3) 2.7										
Mixed lupine hay, T			(3) 2.3										
Annual hay, T			(2) 1.1			.6						1.0	
Other tame hay, T			(8) .8										
Native hay, T			(26) .9	.2				.3	.2		(3) 0.2	.3	.8
Crop yield index			100	84	174	79	71	122	67	103	100.0	71.0	131.8

* No. farms raising the crop

** Irrigated

*** Irrigated 3.93 dry 0.6

Table 6. Crop yields per acre, 1956

Dist. No.	2A		2A		2A		2A		2A		2A		2A		2A		2A		2A		2B		2B	
	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	
Farm No.																								
Farm type																								
Crop																								
Corn, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Corn & cane silage, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Corn & cane fodder, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Grain sorghum, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Soybeans, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Winter wheat, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Spring wheat, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Durum wheat, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Oats, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Barley, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Rye, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Flax, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Oat hay, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Millet, bu.	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Oat silage, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Alfalfa hay, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Sweet clover hay, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Mixed legume hay, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Annual hay, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Other tame hay, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Native hay, T	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	28	14	9	
Crop yield index	248	112	119	44	43	84	61	88	100	73	56													

Table 6. Crop yields per acre, 1956

Dist No. Farm No. Farm type	2B 2 D	2B 4 D	2B 6 D	2B 9 D	2B 11 D	2B 10 D	2B 5 D	2B 1 E	2B 12 A	2B 13 A	2B 8 B	Dist. av. (No.) yield
<u>Crop</u>												
Corn, bu.	16	35	28.7	37.1	30	35	43.5	30.	25.6	35.	20	(13) 29
Corn & cane silage, T	2.8	4.5	6.0	7.0	6.7	7.0	6.4	2.9		8.0	7.4	(12) 5.4
Corn & cane fodder, T						6.0				8.5		(2) 7.2
Grain sorghum, bu.	13							5.		10		(2) 13
Soybeans, bu.												(2) 8
Winter wheat, bu.												
Spring wheat, bu.		11	6.		9.	3		11.	7.	12.		(9) 7.
Durum wheat, bu.									7			(1) 7
Oats, bu.		9	6.		20		31	27.	23	20		(10) 14
Barley, bu.		23			15.			17	10	28		(6) 16
Rye, bu.							7.	20.		9		(1) 20
Flax, bu.		8						11.				(5) 7.
Millet, bu.		19	9.			25		11.		20		(5) 17.
Oat hay, T	.2					.3						(3) .2
Oat silage, T												
Alfalfa hay, T	1.4	.77	2.0	3.0	1.6	1.4	1.5	1.4	3.0	1.0	2.1	(13) 1.6
Sweet clover hay, T												
Mixed lespede hay, T											.5	(1) 1.5
Annual hay, T											.5	(1) .5
Other tame hay, T												(2) .8
Native hay, T	.4		.7		1.0	.31	.5			1.2		(7) 1.2
Crop yield index	56	108	97.	128	131	65	125	137	130	127.	69	100.

Table 6. Crop yields per acre, 1956

Dist No.	4A	4A	4A	4A	4A	4A	4B	4B	4B	4B	4B	4B
Farm No.	72	75	74	76	Dist. av.	No. yield	85	88	92	81	84	89
Farm type	D	D	A	B			A	A	A	E	E	E
Crop												
Corn, bu.	40	31	53	11.1	(5) 44		6	42	52	30	38	
Corn & cane silage, T	7.3				{ 3 } 8.4			3.5		10.0	8.0	
Corn & cane fodder, T					{ 1 } 3.6							
Grain sorghum, bu.	13	9	17		(4) 13.0		7	14	20	12	20	8
Soybeans, bu.								13				
Winter wheat, bu.					(2) 21							
Spring wheat, bu.				22								
Durum wheat, bu.												
Oats, bu.	25	28	31	40	{ 4 } 37		11		35	12	29	6
Barley, bu.				35	{ 4 } 31		1					
Rye, bu.		7	13	8	(5) 9							
Flax, bu.										.8	6.0	
Millet, bu.												
Oat hay, T												
Oat silage, T												
Alfalfa hay, T	1.4	1.9	2.1	1.4	(6) 1.8			.8	2.0	1.1	1.7	.9
Sweet clover hay, T												
Mixed lespede hay, T												
Annual hay, T				1.0	(2) .8							
Other tame hay, T				.5	(1) .5			.5	1.0	1.0		
Native hay, T												
Crop yield index	80	68	128	110	100		72	79	182	101	150	30

While the fifty-seven farms and ranches included in this study of 1956 operations by no means represented a random sample of units in South Dakota, they nevertheless provided some insight into operations, costs and returns in various types of agriculture in the seven types of farming areas of the state.

Although some holdings showed rather sizable operating losses, others finished the year with good profits, demonstrating the existence of a great deal of variation in farm incomes. Good crops and high efficiency in the use of feed were, as might be expected, key factors in larger farms and ranches were found in areas hit harder by drouth, and they were also hit harder by the cost-price squeeze, so that, contrary to usual expectations, there was an inverse relationship between size and income. In spite of this fact, however, average incomes varied directly with the number of the six basic factors in which farmers excelled.

Dairy and general farms, most of which included some milk cows in their operation had, on the average, higher incomes than crop farms and beef farms and ranches. They also involved fewer acres and small investments. It might seem, therefore, that dairying should not be ignored as a possibility for increasing farm incomes in the state. Except for a few small supplementary sheep and hogs enterprises, dairy cows brought greater returns to feed than any other productive stock. Government payments were smaller for the high-return farms than for the low. This is partially due to the fact that many of these payments were largely for placing in the Soil Bank land where a crop had failed. It is a favorable sign that the operators who made the greatest profits did so without a great deal of government assistance, even in a year of low rainfall and low prices.

Differences in earnings were largely counter-balanced by inventory changes. This is an example of the flexibility to be found in agriculture. In a low-income year a farmer cuts down his purchases of capital items and depletes his inventory; in a good year the opposite is true.

With larger units involving greater fixed costs being hit harder by both unfavorable weather and unfavorable cost-price relationships, there would seem to be little danger of large sized "corporation farming" generally replacing the family sized farms. The latter has demonstrated its ability to withstand adverse conditions time and again, and will no doubt continue to do so.